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NC DENR

Division of Waste Management - Solid Waste

**Environmental Monitoring
Reporting Form**

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NC DENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Municipal Engineering Services Co., P.A. (MESCO)

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jonathan Pfohl

Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Alexander Co. Closed Unlined MSWLF and Active C&D Landfill	2500 Paynes Dairy Road Taylorsville, NC 28681	02-01	.0500	December 17 & 30, 2008

Environmental Status: (Check all that apply)
 Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action
Type of data submitted: (Check all that apply)
 Groundwater monitoring data from monitoring wells
 Groundwater monitoring data from private water supply wells
 Leachate monitoring data
 Surface water monitoring data

 Methane gas monitoring data
 Corrective action data (specify) _____
 Other(specify) _____
Notification attached?

- No. No groundwater or surface water standards were exceeded.
- Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Jonathan Pfohl

Environmental Specialist

(919) 772-5393

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

5/29/07

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Signature

Date

Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Alexander County Closed Unlined MSWLF and Active C&D Landfill
Taylorsville, North Carolina

December 2008

Permit Number: 02-01

MESCO Project Number: G08003.0

Completed on May 29, 2009



Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

**Municipal
Services**



**Engineering
Company, P.A.**

May 29, 2009

Ms. Jaclynne Drummond
 Solid Waste Section
 Division of Waste Management
 North Carolina Department of Environment and Natural Resources
 401 Oberlin Road, Suite 150
 Raleigh, NC 27605

Re: Groundwater Assessment Monitoring Sampling and Analysis
 Alexander County Closed MSWLF and active C&D Landfill
 Permit No. 02-01
 MESCO Project No. G08003.0

Dear Ms. Drummond:

Introduction

The Alexander County Closed Unlined Municipal Solid Waste Landfill (MSWLF) and Active Construction and Demolition (C&D) Landfill located near Taylorsville NC, currently operating under permit #02-01 is required to submit semi-annual compliance reports as a condition of 15A NCAC 13B.1630. This event was performed on December 17 & 30, 2008 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section rules/regulations as promulgated in 15ANCAC13B.1600.

The closed MSWLF ceased operation prior to 1998 and the C&D landfill continues operation upon the closed MSWLF. Since they are in essence one contiguous landfill they are combined and treated as a single unit for overall continuity in reporting. The entire facility currently has a total of 29 groundwater and 3 surface water sampling locations. This report includes a summary of field procedures, laboratory analysis, tables and graphs of current/historical data, single-day potentiometric map with flow directions/rates, and the complete laboratory analytical report.

Sampling Procedure

Municipal Engineering Services Company, P.A. (MESCO) of Garner NC collected water samples from 16 groundwater monitoring wells (MW-1, MW-1B, MW-9, MW-12, MW-12D, MW-13, MW-16, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26), and all three surface water monitoring points (SW-3, SW-4R, SW-5) with all locations shown upon the enclosed single-day potentiometric map. Water samples were procured from a subset of all of the wells surrounding the facility based upon known water quality conditions in relation to the relevant point of compliance. Samples were not obtained from 11 of the wells (MW-2, MW-3, MW-4R, MW-6, MW-7, MW-10, MW-11, MW-14, MW-15, MW-19, MW-27,) because either their location is in very close proximity to the waste limit and new compliance wells have since been installed downgradient or recent detections have been minimal. Monitoring well MW-1 remains dry. Water levels were recorded from all of the monitoring wells in order to construct more accurate equipotential contours.

All sampling was conducted utilizing methodology outlined in the NCDENR guidance document *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. The depth to water in each well was gaged prior to purging to quantify the static water level and utilized for construction of the attached single-day potentiometric map. In addition to the required field measurements (pH, specific conductance, temperature) additional field parameters (DO, ORP, TDS) were also quantified to better discern the water quality.

All samples were collected by MESCO in laboratory prepared pre-preserved containers. Low flow pumping methodology was utilized to adequately purge the wells and samples were than immediately procured via a disposable baler. All samples were properly collected, separated based upon likelihood of potential cross-contamination, kept upon ice, and transported to the laboratory under proper chain of custody (C-O-C) within the specified hold times for each analysis. Environmental Conservation Laboratories, Inc. (ENCO) of Cary NC completed all of the laboratory analysis.

Field and Laboratory Results

All of the groundwater and surface water locations were analyzed for the complete Appendix I list of volatile organic compounds (VOCs) by EPA METHOD 8260B, total unfiltered metals via EPA METHOD 6010B/6020, and mercury via EPA METHOD 7470. Quality control measures were also implemented during this event which included submittal and subsequent quantification of blanks for VOC analysis only.

The enclosed field data table consists of all field parameter data and it appears to be generally consistent relative to each other and congruent with data historically reported. Anaerobic and reducing conditions appear to prevail within most of the impacted wells indicating conditions conducive to natural attenuation of chlorinated aliphatic hydrocarbons (CAH). All water samples were analyzed utilizing the Method Detection Limits (MDL) with reference to the Solid Waste Section detection limit (SWSL) values current as of the sampling event. All detected constituents were referenced to the Groundwater Protection Standards (GWP) and compared to the North Carolina Groundwater Standards (NCGW2L) or the North Carolina Surface Water Standards (NCSW2B) for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan".

The following Table 1 summarizes all of the metals detected in concentrations in exceedance of the NCGW2L Standard. None of the surface water monitoring locations were found to contain any constituent in a concentration in exceedance of the NCSW2B Standard.

Table 1. NCGW2L Exceedance Summary (Metals)

Well	Chromium	Mercury	Cumulative Total
NCGW2L	50	1.1	-
MW-21		1.14	1.14
MW-25	<i>130</i>		130
Total	130	1.14	131.14

Italicized indicates detected above own respective historical identified range. "*j*" <SWSL therefore estimated concentration
All concentrations reported in ug/L

Quantifiable concentrations of inorganic constituents were detected within all of the monitoring locations with the exception of MW-12, MW-13, SW-4R, and SW-5. Chromium was detected within MW-25 in a concentration in exceedance of the NCGW2L Standard and in a level higher than its previous three event history. All monitoring wells located within the MW-25 region which include MW-7, MW-12, MW-12D, and MW-24, have historically lacked elevated concentrations of chromium with the exception of a few events within MW-12 which corresponded with the post installation/pre development period. The water samples taken from MW-25 were found to contain the highest amount of turbidity which likely contributed to the elevated total metal content. More representative total metal concentrations within MW-25 are expected to be revealed upon further well development. Mercury was detected within MW-21 in a concentration in exceedance of the NCGW2L Standard. This is the premier event mercury has been analyzed for within MW-21.

VOCs were found in quantifiable concentrations (>SWSL) within nine of the sixteen groundwater monitoring locations during this event. All wells found to contain VOCs in exceedance of the NCGW2L were found to contain the aromatics benzene and paradichlorobenzene. Table 2 summarizes the VOCs that were detected in levels above the SWSL during this event.

Table 2. Detection Summary (VOCs)

Monitoring Location	Aromatics		CAHs					Cumulative Total	
	Benzene	1,4-DCB	PCE	TCE	DCM	1,1-DCA	cis-1,2-DCE		
NCGW2L	1	1.4	0.7	2.8	4.6	70	70	0.51	-
MW-1	4.5	3.2				8.8			16.5
MW-1B	1.4	1.8			1.2				4.4
MW-9						16			16
MW-12	6.2	6.9	1.1	2.1	1.2		12		29.5
MW-16	3.1	1.8	2.6	3.3	2.8	14	13	0.83^j	41.43
MW-21					<i>1.1</i>				1.1
MW-24	1.2	2.6				6.4			10.2
MW-25		1.1							1.1
MW-26	1.7	3.1				26			30.8
Total	18.1	20.5	3.7	5.4	6.3	14	82.2	0.83	151.03

BOLD indicates detected in exceedance of NCGW2L Standard. *Italicized* indicates found above own respective historical identified range. "^j" <SWSL therefore estimated concentration
All concentrations reported in ug/L

The latest analytical data indicates that the shallow groundwater impacted by VOCs continues to migrate via finger plumes from the waste limit in the southern, southwestern, southeastern, and northeastern directions. The wells found to contain VOCs in concentration of the Standard were found to contain a mixture of both dissolved phase aromatics and CAH's. Generally all of the detected VOCs are not grossly elevated, typical of contaminants commonly found in groundwater at MSWLF facilities. The source of VOCs within the groundwater is likely attributed to leachate and or landfill gas (LFG) that originated from the closed unlined MSWLF. There were no "new" organic parameters detected during this event other than the contaminants of concern outlined within the approved comprehensive *Assessment of Corrective Measures* (ACM) report submitted by MESCO on April 11, 2008. The only VOC detected outside of their own respective historically identified range was a low concentration of dichloromethane (DCM) within MW-21. Time-series graphs for all parameters detected above regulatory standards with non-detects (ND) represented at the detection limit are enclosed. The reduction in reportable analytical results from the Practical Quantification Limit (PQL) to the MDL has directly lead to additional of low level VOC detections and should not be misconstrued as evidence of additional contamination.

Groundwater and Surface Water Characterization

MESCO completed and enclosed the required single-day potentiometric map from groundwater elevation data compiled during this event. Groundwater flow rates and directions for all wells screened within the regolith were also calculated based upon this data and is included in the attached table. The groundwater flow directions are in a general westerly direction, with southwesterly and northwesterly flow away from the waste limit. Flow rates within the wells screened within the regolith ranged from approximately 9ft./yr (MW-5) to 9,733 ft./yr. (MW-24) averaging approximately 2,026 ft./yr. The flow directions and gradients are consistent with historical observations, showing no changes that would result in a different interpretation of the groundwater system or hinder the effectiveness of the current monitoring network. All of the surface water monitoring locations were visually determined to be at low gage height, low flow rates, which yielded low turbidity samples.

Conclusion

The analytical results of the December 2008 sampling event indicates that VOCs continue to persist within and beyond the Alexander County Closed MSWLF property. The facility will continue to be monitored and our intention is to collect water samples from all of the monitoring locations during the next semi-annual event is scheduled for June 2009. The parameter list is expected to include the complete Appendix I list of VOCs, total metals, and mercury. In addition water samples collected from the monitoring locations within the proposed remediation areas are planned to be analyzed for the complete suite of MNA performance parameters as outlined within the Corrective Action Plan (CAP) SAP. If you have any questions or comments regarding this report, please contact me at (919) 772-5393 or by email at jpfohl@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Jonathan Pfahl



Environmental Specialist

Enclosures

cc: Mr. Josh Mitchell
Alexander County

Detection Scan All Detections above SWSL, GWP, NCGW2L, or NCSWS2B

Alexander County Closed MSWLF and Active C&D Landfill

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSWS2B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-1	1,4-Dichlorobenzene	12/30/08	3.2	ug/L	0.38	1	1.4			1.8	Leachate &/or LFG
MW-1	Benzene	12/30/08	4.5	ug/L	0.20	1	1			3.5	Leachate &/or LFG
MW-1	cis-1,2-Dichloroethene	12/30/08	8.8	ug/L	0.36	5	70				
MW-1	Cobalt	12/30/08	31.2	ug/L	1.1	10			70		
MW-1	Zinc	12/30/08	356	ug/L	3.8	10	1050				
MW-1B	1,4-Dichlorobenzene	12/30/08	1.8	ug/L	0.38	1	1.4			0.4	Leachate &/or LFG
MW-1B	Benzene	12/30/08	1.4	ug/L	0.20	1	1			0.4	Leachate &/or LFG
MW-1B	Cobalt	12/30/08	14	ug/L	1.1	10			70		
MW-1B	Mercury	12/30/08	0.32	ug/L	0.11	0.2	1.1				
MW-1B	Methylene chloride	12/30/08	1.2	ug/L	0.53	1	4.6				
MW-1B	Zinc	12/30/08	48.9	ug/L	3.8	10	1050				
MW-9	Barium	12/17/08	112	ug/L	1.00	100	2000				
MW-9	cis-1,2-Dichloroethene	12/17/08	16	ug/L	0.36	5	70				
MW-12	1,4-Dichlorobenzene	12/17/08	6.9	ug/L	0.38	1	1.4			5.5	Leachate &/or LFG
MW-12	Benzene	12/17/08	6.2	ug/L	0.20	1	1			5.2	Leachate &/or LFG
MW-12	cis-1,2-Dichloroethene	12/17/08	12	ug/L	0.36	5	70				
MW-12	Methylene chloride	12/17/08	1.2	ug/L	0.53	1	4.6				
MW-12	Tetrachloroethene	12/17/08	1.1	ug/L	0.36	1	0.7			0.4	Leachate &/or LFG
MW-12	Trichloroethene	12/17/08	2.1	ug/L	0.38	1	2.8				
MW-12D	Zinc	12/17/08	23.4	ug/L	3.8	10	1050				
MW-16	1,1-Dichloroethane	12/30/08	14	ug/L	0.33	5	70				
MW-16	1,2-Dichloropropane	12/30/08	0.83 ^j	ug/L	0.20	1	0.51			0.32	Leachate &/or LFG
MW-16	1,4-Dichlorobenzene	12/30/08	1.8	ug/L	0.38	1	1.4			0.4	Leachate &/or LFG
MW-16	Benzene	12/30/08	3.1	ug/L	0.20	1	1			2.1	Leachate &/or LFG
MW-16	cis-1,2-Dichloroethene	12/30/08	13	ug/L	0.36	5	70				
MW-16	Cobalt	12/30/08	14.6	ug/L	1.1	10			70		
MW-16	Mercury	12/30/08	0.39	ug/L	0.11	0.2	1.1				
MW-16	Methylene chloride	12/30/08	2.8	ug/L	0.53	1	4.6				
MW-16	Tetrachloroethene	12/30/08	2.6	ug/L	0.36	1	0.7			1.9	Leachate &/or LFG
MW-16	Trichloroethene	12/30/08	3.3	ug/L	0.38	1	2.8			0.5	Leachate &/or LFG
MW-17	Cobalt	12/30/08	22.4	ug/L	1.1	10			70		
MW-17	Mercury	12/30/08	0.34	ug/L	0.11	0.2	1.1				
MW-18	Copper	12/30/08	16	ug/L	1.60	10	1000				
MW-18	Vanadium	12/30/08	9.2 ^j	ug/L	1.4	25			3.5	5.7	Natural &/or Artifact
MW-18	Zinc	12/30/08	22.7	ug/L	3.8	10	1050				

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSW2B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-20	Barium	12/30/08	190	ug/L	1.00	100	2000				
MW-20	Copper	12/30/08	12	ug/L	1.60	10	1000				
MW-20	Vanadium	12/30/08	7.7^j	ug/L	1.4	25			3.5	4.2	Natural &/or Artifact
MW-20	Zinc	12/30/08	10.1	ug/L	3.8	10	1050				
MW-21	Benzene	12/30/08	1	ug/L	0.20	1	1				
MW-21	Mercury	12/30/08	1.14	ug/L	0.11	0.2	1.1		0.04		Leachate &/or LFG
MW-21	Methylene chloride	12/30/08	1.1	ug/L	0.53	1	4.6				
MW-23	Cobalt	12/30/08	10.5	ug/L	1.1	10			70		
MW-23	Vanadium	12/30/08	4.6^j	ug/L	1.4	25			3.5	1.1	Natural &/or Artifact
MW-23	Zinc	12/30/08	11.6	ug/L	3.8	10	1050				
MW-24	1,4-Dichlorobenzene	12/17/08	2.6	ug/L	0.38	1	1.4		1.2		Leachate &/or LFG
MW-24	Benzene	12/17/08	1.2	ug/L	0.20	1	1		0.2		Leachate &/or LFG
MW-24	cis-1,2-Dichloroethene	12/17/08	6.4	ug/L	0.36	5	70				
MW-24	Cobalt	12/17/08	39.7	ug/L	1.1	10			70		
MW-24	Zinc	12/17/08	14	ug/L	3.8	10	1050				
MW-25	1,4-Dichlorobenzene	12/17/08	1.1	ug/L	0.38	1	1.4				
MW-25	Barium	12/17/08	283	ug/L	1.00	100	2000				
MW-25	Chromium	12/17/08	130	ug/L	1.0	10	50		80		Natural &/or Artifact
MW-25	Nickel	12/17/08	59.1	ug/L	1.8	50	100				
MW-25	Vanadium	12/17/08	66.1	ug/L	1.4	25			3.5	62.6	Natural &/or Artifact
MW-25	Zinc	12/17/08	74.4	ug/L	3.8	10	1050				
MW-26	1,4-Dichlorobenzene	12/17/08	3.1	ug/L	0.38	1	1.4		1.7		Leachate &/or LFG
MW-26	Benzene	12/17/08	1.7	ug/L	0.20	1	1		0.7		Leachate &/or LFG
MW-26	Chromium	12/17/08	10.3	ug/L	1.0	10	50				
MW-26	cis-1,2-Dichloroethene	12/17/08	26	ug/L	0.36	5	70				
MW-26	Cobalt	12/17/08	54.7	ug/L	1.1	10			70		
MW-26	Zinc	12/17/08	39.5	ug/L	3.8	10	1050				
SW-3	Barium	12/17/08	110	ug/L	1.00	100		200000			
SW-3	Cobalt	12/17/08	129	ug/L	1.1	10		270			

¹ Table only contains detected constituents detected above the SWSL, GWP, NCGW2L or NCSW2B Standards

² MDL = Method Detection Limit

³ SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

⁴ NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

⁵ NCSW2B = North Carolina Surface Water 2B Standard for Specific Stream Classification (Current as of Sampling Event)

^j =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content

LFG = Landfill Gas

NE = Not Established

BOLD = Concentration =>GWP, NCGW2L, or NCSW2B Standard (Current as of Sampling Event)

Detection Scan All Detections above MDL
Alexander County Closed MSWLF and Active C&D Landfill

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSW2 B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-1	1,1-Dichloroethane	12/30/08	1.5	ug/L	0.33	5	70				
MW-1	1,4-Dichlorobenzene	12/30/08	3.2	ug/L	0.38	1	1.4		1.8		Leachate &/or LFG
MW-1	Barium	12/30/08	63.2	ug/L	1.00	100	2000				
MW-1	Benzene	12/30/08	4.5	ug/L	0.20	1	1		3.5		Leachate &/or LFG
MW-1	cis-1,2-Dichloroethene	12/30/08	8.8	ug/L	0.36	5	70				
MW-1	Cobalt	12/30/08	31.2	ug/L	1.1	10		70			
MW-1	Lead	12/30/08	6.1	ug/L	1.9	10	15				
MW-1	Mercury	12/30/08	0.17	ug/L	0.11	0.2	1.1				
MW-1	Nickel	12/30/08	17.1	ug/L	1.8	50	100				
MW-1	Xylenes (Total)	12/30/08	0.41	ug/L	0.40	5	530				
MW-1	Zinc	12/30/08	356	ug/L	3.8	10	1050				
MW-1B	1,1-Dichloroethane	12/30/08	1.5	ug/L	0.33	5	70				
MW-1B	1,4-Dichlorobenzene	12/30/08	1.8	ug/L	0.38	1	1.4		0.4		Leachate &/or LFG
MW-1B	Barium	12/30/08	32.9	ug/L	1.00	100	2000				
MW-1B	Benzene	12/30/08	1.4	ug/L	0.20	1	1		0.4		Leachate &/or LFG
MW-1B	Carbon disulfide	12/30/08	0.66	ug/L	0.54	100	700				
MW-1B	Chromium	12/30/08	2.7	ug/L	1.0	10	50				
MW-1B	cis-1,2-Dichloroethene	12/30/08	4.1	ug/L	0.36	5	70				
MW-1B	Cobalt	12/30/08	14	ug/L	1.1	10		70			
MW-1B	Copper	12/30/08	2	ug/L	1.60	10	1000				
MW-1B	Lead	12/30/08	5.3	ug/L	1.9	10	15				
MW-1B	Mercury	12/30/08	0.32	ug/L	0.11	0.2	1.1				
MW-1B	Methylene chloride	12/30/08	1.2	ug/L	0.53	1	4.6				
MW-1B	Nickel	12/30/08	6.7	ug/L	1.8	50	100				
MW-1B	Trichloroethene	12/30/08	0.43	ug/L	0.38	1	2.8				
MW-1B	Vanadium	12/30/08	3.4	ug/L	1.4	25		3.5			
MW-1B	Xylenes (Total)	12/30/08	2.2	ug/L	0.40	5	530				
MW-1B	Zinc	12/30/08	48.9	ug/L	3.8	10	1050				
MW-9	1,1-Dichloroethane	12/17/08	1.7	ug/L	0.33	5	70				
MW-9	Barium	12/17/08	112	ug/L	1.00	100	2000				
MW-9	Chloroethane	12/17/08	1	ug/L	0.30	10	2800				
MW-9	cis-1,2-Dichloroethene	12/17/08	16	ug/L	0.36	5	70				
MW-9	Cobalt	12/17/08	6.5	ug/L	1.1	10		70			
MW-9	Nickel	12/17/08	31.8	ug/L	1.8	50	100				
MW-12	1,1-Dichloroethane	12/17/08	3.7	ug/L	0.33	5	70				
MW-12	1,4-Dichlorobenzene	12/17/08	6.9	ug/L	0.38	1	1.4		5.5		Leachate &/or LFG
MW-12	Acetone	12/17/08	5.9	ug/L	1.5	100	700				
MW-12	Barium	12/17/08	97.3	ug/L	1.00	100	2000				
MW-12	Benzene	12/17/08	6.2	ug/L	0.20	1	1		5.2		Leachate &/or LFG
MW-12	Chlorobenzene	12/17/08	1.6	ug/L	0.27	3	50				
MW-12	Chloroethane	12/17/08	2.8	ug/L	0.30	10	2800				
MW-12	cis-1,2-Dichloroethene	12/17/08	12	ug/L	0.36	5	70				
MW-12	Cobalt	12/17/08	2.1	ug/L	1.1	10		70			
MW-12	Methylene chloride	12/17/08	1.2	ug/L	0.53	1	4.6				
MW-12	Nickel	12/17/08	1.8	ug/L	1.8	50	100				
MW-12	Tetrachloroethene	12/17/08	1.1	ug/L	0.36	1	0.7		0.4		Leachate &/or LFG

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSW2 B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-12	Trichloroethene	12/17/08	2.1	ug/L	0.38	1	2.8				
MW-12	Zinc	12/17/08	8.5	ug/L	3.8	10	1050				
MW-12D	1,1-Dichloroethane	12/17/08	0.79	ug/L	0.33	5	70				
MW-12D	Acetone	12/17/08	5.4	ug/L	1.5	100	700				
MW-12D	Barium	12/17/08	8.4	ug/L	1.00	100	2000				
MW-12D	Benzene	12/17/08	0.47	ug/L	0.20	1	1				
MW-12D	cis-1,2-Dichloroethene	12/17/08	0.9	ug/L	0.36	5	70				
MW-12D	Nickel	12/17/08	2.5	ug/L	1.8	50	100				
MW-12D	Zinc	12/17/08	23.4	ug/L	3.8	10	1050				
MW-13	Barium	12/30/08	17.9	ug/L	1.00	100	2000				
MW-13	Cobalt	12/30/08	4.4	ug/L	1.1	10		70			
MW-13	Nickel	12/30/08	10.3	ug/L	1.8	50	100				
MW-16	1,1-Dichloroethane	12/30/08	14	ug/L	0.33	5	70				
MW-16	1,2-Dichloropropane	12/30/08	0.83^j	ug/L	0.20	1	0.51		0.32		Leachate &/or LFG
MW-16	1,4-Dichlorobenzene	12/30/08	1.8	ug/L	0.38	1	1.4		0.4		Leachate &/or LFG
MW-16	Barium	12/30/08	60.2	ug/L	1.00	100	2000				
MW-16	Benzene	12/30/08	3.1	ug/L	0.20	1	1		2.1		Leachate &/or LFG
MW-16	Chlorobenzene	12/30/08	0.41	ug/L	0.27	3	50				
MW-16	Chloroethane	12/30/08	0.87	ug/L	0.30	10	2800				
MW-16	cis-1,2-Dichloroethene	12/30/08	13	ug/L	0.36	5	70				
MW-16	Cobalt	12/30/08	14.6	ug/L	1.1	10		70			
MW-16	Mercury	12/30/08	0.39	ug/L	0.11	0.2	1.1				
MW-16	Methylene chloride	12/30/08	2.8	ug/L	0.53	1	4.6				
MW-16	Nickel	12/30/08	6.2	ug/L	1.8	50	100				
MW-16	Tetrachloroethene	12/30/08	2.6	ug/L	0.36	1	0.7		1.9		Leachate &/or LFG
MW-16	Trichloroethene	12/30/08	3.3	ug/L	0.38	1	2.8		0.5		Leachate &/or LFG
MW-16	Xylenes (Total)	12/30/08	1.9	ug/L	0.40	5	530				
MW-16	Zinc	12/30/08	7.7	ug/L	3.8	10	1050				
MW-17	1,1-Dichloroethane	12/30/08	1.7	ug/L	0.33	5	70				
MW-17	Barium	12/30/08	64.5	ug/L	1.00	100	2000				
MW-17	Benzene	12/30/08	0.81	ug/L	0.20	1	1				
MW-17	cis-1,2-Dichloroethene	12/30/08	2	ug/L	0.36	5	70				
MW-17	Cobalt	12/30/08	22.4	ug/L	1.1	10		70			
MW-17	Mercury	12/30/08	0.34	ug/L	0.11	0.2	1.1				
MW-17	Nickel	12/30/08	5.3	ug/L	1.8	50	100				
MW-17	Trichloroethene	12/30/08	0.53	ug/L	0.38	1	2.8				
MW-17	Zinc	12/30/08	4.2	ug/L	3.8	10	1050				
MW-18	Barium	12/30/08	39.8	ug/L	1.00	100	2000				
MW-18	Chromium	12/30/08	3.8	ug/L	1.0	10	50				
MW-18	Cobalt	12/30/08	6.6	ug/L	1.1	10		70			
MW-18	Copper	12/30/08	16	ug/L	1.60	10	1000				
MW-18	Lead	12/30/08	4.8	ug/L	1.9	10	15				
MW-18	Nickel	12/30/08	8.9	ug/L	1.8	50	100				
MW-18	Vanadium	12/30/08	9.2^j	ug/L	1.4	25			3.5	5.7	Natural &/or Artifact
MW-18	Zinc	12/30/08	22.7	ug/L	3.8	10	1050				
MW-20	1,1-Dichloroethane	12/30/08	0.59	ug/L	0.33	5	70				
MW-20	Barium	12/30/08	190	ug/L	1.00	100	2000				
MW-20	Chromium	12/30/08	7.7	ug/L	1.0	10	50				
MW-20	Cobalt	12/30/08	6.9	ug/L	1.1	10		70			

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSW2 B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-20	Copper	12/30/08	12	ug/L	1.60	10	1000				
MW-20	Lead	12/30/08	3.3	ug/L	1.9	10	15				
MW-20	Nickel	12/30/08	15.4	ug/L	1.8	50	100				
MW-20	Vanadium	12/30/08	7.7^j	ug/L	1.4	25			3.5	4.2	Natural &/or Artifact
MW-20	Zinc	12/30/08	10.1	ug/L	3.8	10	1050				
MW-21	1,1-Dichloroethane	12/30/08	2.5	ug/L	0.33	5	70				
MW-21	Barium	12/30/08	54.2	ug/L	1.00	100	2000				
MW-21	Benzene	12/30/08	1	ug/L	0.20	1	1				
MW-21	cis-1,2-Dichloroethene	12/30/08	2.4	ug/L	0.36	5	70				
MW-21	Cobalt	12/30/08	7.7	ug/L	1.1	10			70		
MW-21	Mercury	12/30/08	1.14	ug/L	0.11	0.2	1.1			0.04	Leachate &/or LFG
MW-21	Methylene chloride	12/30/08	1.1	ug/L	0.53	1	4.6				
MW-21	Nickel	12/30/08	6.2	ug/L	1.8	50	100				
MW-21	Tetrachloroethene	12/30/08	0.52	ug/L	0.36	1	0.7				
MW-21	Trichloroethene	12/30/08	0.85	ug/L	0.38	1	2.8				
MW-22	Barium	12/30/08	36.5	ug/L	1.00	100	2000				
MW-23	1,1-Dichloroethane	12/30/08	0.68	ug/L	0.33	5	70				
MW-23	1,4-Dichlorobenzene	12/30/08	0.65	ug/L	0.38	1	1.4				
MW-23	Barium	12/30/08	97.2	ug/L	1.00	100	2000				
MW-23	Chromium	12/30/08	7.4	ug/L	1.0	10	50				
MW-23	cis-1,2-Dichloroethene	12/30/08	4.6	ug/L	0.36	5	70				
MW-23	Cobalt	12/30/08	10.5	ug/L	1.1	10			70		
MW-23	Lead	12/30/08	4.7	ug/L	1.9	10	15				
MW-23	Mercury	12/30/08	0.11	ug/L	0.11	0.2	1.1				
MW-23	Nickel	12/30/08	12.4	ug/L	1.8	50	100				
MW-23	Trichloroethene	12/30/08	0.42	ug/L	0.38	1	2.8				
MW-23	Vanadium	12/30/08	4.6^j	ug/L	1.4	25			3.5	1.1	Natural &/or Artifact
MW-23	Zinc	12/30/08	11.6	ug/L	3.8	10	1050				
MW-24	1,1-Dichloroethane	12/17/08	0.95	ug/L	0.33	5	70				
MW-24	1,4-Dichlorobenzene	12/17/08	2.6	ug/L	0.38	1	1.4			1.2	Leachate &/or LFG
MW-24	Arsenic	12/17/08	3.2	ug/L	2.8	10	50				
MW-24	Barium	12/17/08	99.4	ug/L	1.00	100	2000				
MW-24	Benzene	12/17/08	1.2	ug/L	0.20	1	1			0.2	Leachate &/or LFG
MW-24	Chlorobenzene	12/17/08	0.53	ug/L	0.27	3	50				
MW-24	cis-1,2-Dichloroethene	12/17/08	6.4	ug/L	0.36	5	70				
MW-24	Cobalt	12/17/08	39.7	ug/L	1.1	10			70		
MW-24	Nickel	12/17/08	3.4	ug/L	1.8	50	100				
MW-24	Zinc	12/17/08	14	ug/L	3.8	10	1050				

Sample ID	Parameter Name ¹	Sample Date	Result	Unit	MDL ²	SWSL ³	NCGW 2L ⁴	NCSW2 B ⁵	GWP ⁶	Exceedance	Preliminary Cause
MW-25	1,1-Dichloroethane	12/17/08	2.3	ug/L	0.33	5	70				
MW-25	1,4-Dichlorobenzene	12/17/08	1.1	ug/L	0.38	1	1.4				
MW-25	Barium	12/17/08	283	ug/L	1.00	100	2000				
MW-25	Benzene	12/17/08	0.87	ug/L	0.20	1	1				
MW-25	Chloroethane	12/17/08	0.76	ug/L	0.30	10	2800				
MW-25	Chromium	12/17/08	130	ug/L	1.0	10	50		80		Natural &/or Artifact
MW-25	cis-1,2-Dichloroethene	12/17/08	1.3	ug/L	0.36	5	70				
MW-25	Cobalt	12/17/08	9.3	ug/L	1.1	10			70		
MW-25	Copper	12/17/08	5.9	ug/L	1.60	10	1000				
MW-25	Lead	12/17/08	8.7	ug/L	1.9	10	15				
MW-25	Nickel	12/17/08	59.1	ug/L	1.8	50	100				
MW-25	Tetrachloroethene	12/17/08	0.6	ug/L	0.36	1	0.7				
MW-25	Trichloroethene	12/17/08	0.52	ug/L	0.38	1	2.8				
MW-25	Vanadium	12/17/08	66.1	ug/L	1.4	25			3.5	62.6	Natural &/or Artifact
MW-25	Zinc	12/17/08	74.4	ug/L	3.8	10	1050				
MW-26	1,1-Dichloroethane	12/17/08	1.2	ug/L	0.33	5	70				
MW-26	1,4-Dichlorobenzene	12/17/08	3.1	ug/L	0.38	1	1.4		1.7		Leachate &/or LFG
MW-26	Barium	12/17/08	95.8	ug/L	1.00	100	2000				
MW-26	Benzene	12/17/08	1.7	ug/L	0.20	1	1		0.7		Leachate &/or LFG
MW-26	Chlorobenzene	12/17/08	0.73	ug/L	0.27	3	50				
MW-26	Chloroethane	12/17/08	0.94	ug/L	0.30	10	2800				
MW-26	Chromium	12/17/08	10.3	ug/L	1.0	10	50				
MW-26	cis-1,2-Dichloroethene	12/17/08	26	ug/L	0.36	5	70				
MW-26	Cobalt	12/17/08	54.7	ug/L	1.1	10			70		
MW-26	Nickel	12/17/08	20.9	ug/L	1.8	50	100				
MW-26	Zinc	12/17/08	39.5	ug/L	3.8	10	1050				
SW-3	1,1-Dichloroethane	12/17/08	0.87	ug/L	0.33	5		NE			
SW-3	1,4-Dichlorobenzene	12/17/08	0.88	ug/L	0.38	1	100				
SW-3	Barium	12/17/08	110	ug/L	1.00	100	200000				
SW-3	Chloroethane	12/17/08	0.44	ug/L	0.30	10	550				
SW-3	cis-1,2-Dichloroethene	12/17/08	3.7	ug/L	0.36	5	4900				
SW-3	Cobalt	12/17/08	129	ug/L	1.1	10	270				
SW-3	Nickel	12/17/08	3.1	ug/L	1.8	50	88				
SW-4R	Barium	12/30/08	42.8	ug/L	1.00	100	200000				
SW-5	Barium	12/30/08	18.8	ug/L	1.00	100	200000				
SW-5	Cobalt	12/30/08	3.7	ug/L	1.1	10	270				
TB	Methylene chloride	12/30/08	0.78	ug/L	0.53	1	4.6				
EB	Acetone	12/30/08	14	ug/L	1.5	100	700				
EB	Chloroform	12/30/08	0.43	ug/L	0.20	5	70				
FB	Acetone	12/30/08	15	ug/L	1.5	100	700				

Hydrologic Properties at Monitoring Well Locations
Alexander County Closed MSWLF and Active C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elevation (ft)	Screened Interval Lithology
MW-1	5.60E-05	10%	n/a	n/a	n/a	36.08	1044.46	Gneiss
MW-1A	5.60E-05	1%	n/a	n/a	n/a	48.60	1036.72	Gneiss
MW-1B	-	-	n/a	n/a	n/a	47.01	1035.55	Gneiss
MW-2	3.70E-06	28%	0.66	9	N70W	26.45	978.03	Silty Sand
MW-3	3.90E-06	10%	n/a	n/a	n/a	15.19	1009.54	Gneiss
MW-4R	4.90E-04	10%	n/a	n/a	n/a	14.82	997.82	Gneiss
MW-5	6.40E-05	28%	0.04	9	S21E	43.35	1007.91	Saprolite
MW-6	2.40E-05	10%	n/a	n/a	S76W	26.27	978.84	Gneiss
MW-7	1.60E-06	10%	n/a	n/a	S34W	43.80	965.44	Gneiss
MW-9	-	-	0.06	-	S3W	10.81	985.46	PWR
MW-10	-	-	n/a	n/a	n/a	38.43	1002.37	Rock
MW-11	-	-	n/a	n/a	n/a	40.85	971.11	Rock
MW-12	-	-	n/a	n/a	n/a	55.50	951.85	PWR/Gneiss
MW-12D	-	-	n/a	n/a	n/a	64.51	943.95	PWR/Gneiss
MW-13	-	-	n/a	n/a	n/a	42.61	961.95	Gneiss
MW-14	-	-	n/a	n/a	n/a	39.01	958.43	Gneiss
MW-15	-	-	n/a	n/a	n/a	22.93	1000.51	Gneiss
MW-16	8.72E-04	17%	0.03	157	S18E	31.90	1005.66	Silty Sand
MW-17	-	-	n/a	n/a	n/a	17.45	973.71	Gneiss
MW-18	1.19E-04	10%	n/a	n/a	n/a	55.20	1029.13	Gneiss
MW-19	1.92E-06	10%	n/a	n/a	n/a	53.40	1018.08	Gneiss
MW-20	5.49E-05	10%	n/a	n/a	n/a	40.93	1005.99	Gneiss
MW-21	3.77E-03	28.1%	0.20	2789	N49W	32.14	957.86	Silty Sand
MW-22	6.04E-04	28.1%	0.19	415	N46W	15.50	943.47	Silty Sand
MW-23	9.83E-04	28.1%	0.30	1073	N50W	17.74	932.74	Silty Sand
MW-24	1.33E-02	10%	0.07	9733	S60W	33.10	940.94	PWR
MW-25	5.41E-05	10%	n/a	n/a	n/a	32.93	949.00	Gneiss
MW-26	1.16E-04	10%	n/a	n/a	n/a	28.24	962.45	Gneiss
MW-27	2.83E-05	10%	n/a	n/a	n/a	20.35	971.84	Gneiss

NOTE: Values for hydraulic conductivity obtained from GAI Consultants Sampling Report (April, 1995) & MESCO ACM Report (2008).

Wells screened in rock not utilized for flow directions/gradients.

Hydrologic Gradient taken from the December 17 & 30, 2008 sampling event.

Flow rate (Q) is defined by the equation:

where
$$Q = - \frac{K}{n_e} \cdot \frac{dh}{dl}$$

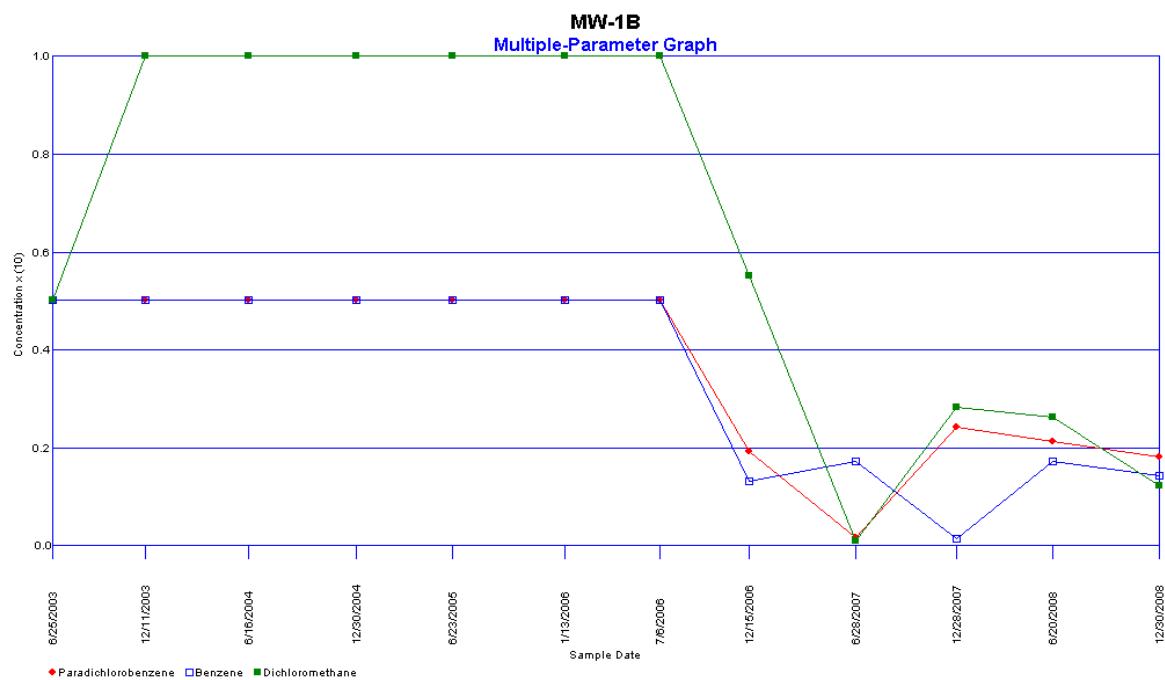
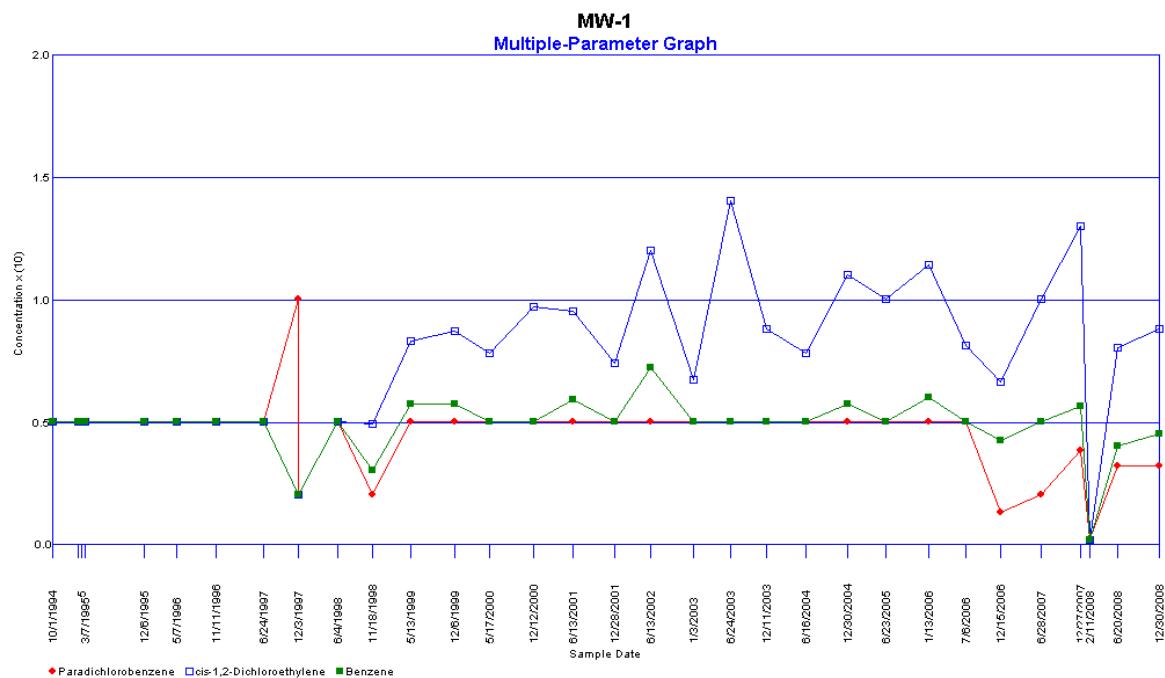
K= hydraulic conductivity
 n_e = effective porosity
 dh = head difference
 dl = horizontal distance

Field Parameter Data Sheet**Alexander County Closed MSWLF and Active C&D Landfill****December 17 & 30, 2008 Sampling Event**

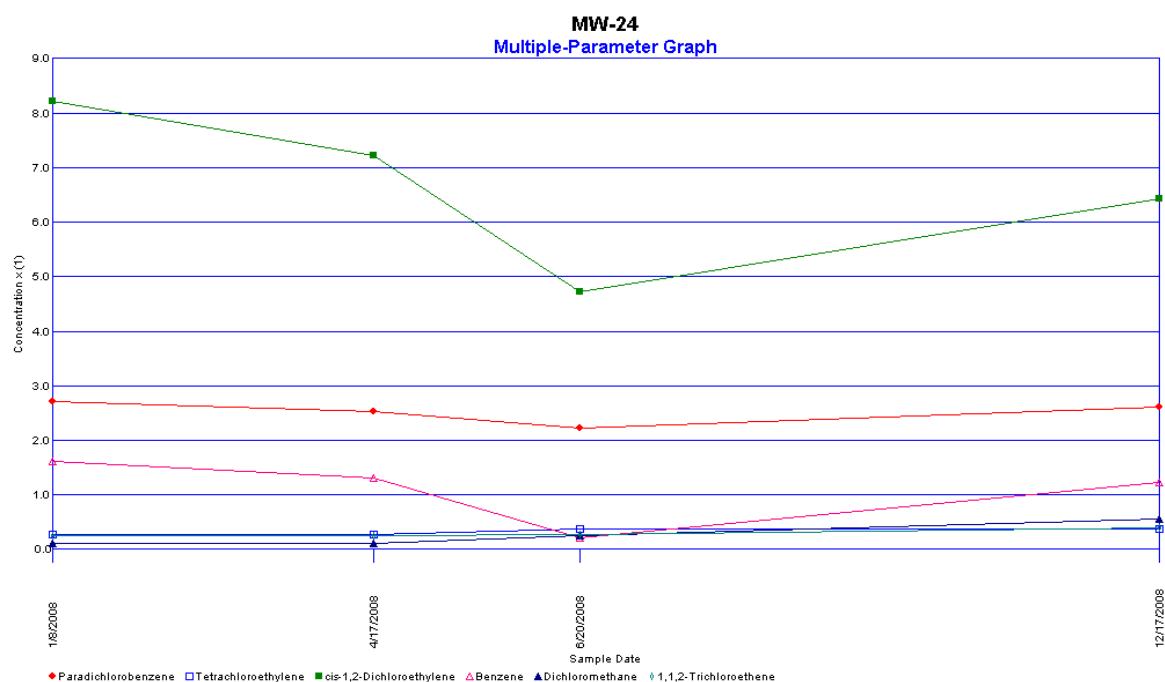
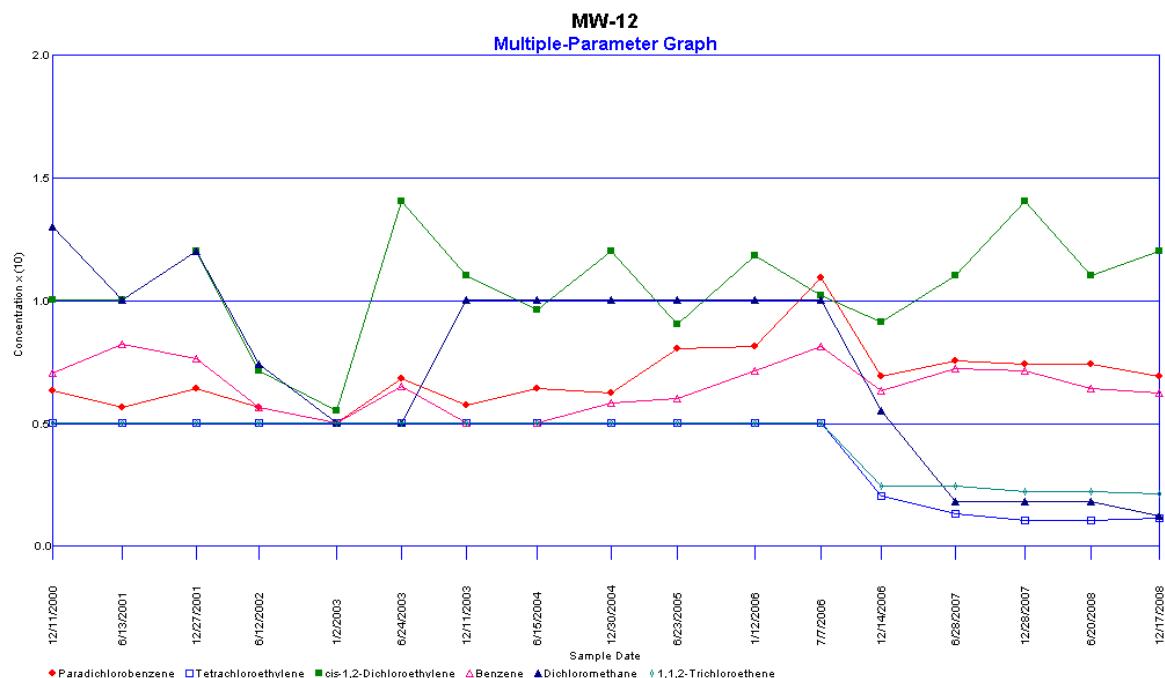
Monitoring Location	Sample or WLR Date	WATER TABLE DEPTH (FT)	pH	Temp °C	Specific Conductance (umhos/cm)	TDS (mg/L)	DO (mg/L)	ORP
MW-1	12/30/08	36.08	6.4	15.9	610	300	0.7	-63
MW-1A		Dry No Sample						
MW-1B	12/30/08	47.01	6.3	15.7	70	30	0.9	-170
MW-2	12/30/08	26.45	Not Available as Not Sampled					
MW-3	12/30/08	15.19	Not Available as Not Sampled					
MW-4R	12/30/08	14.82	Not Available as Not Sampled					
MW-5	12/30/08	43.35	Not Available as Not Sampled					
MW-6	12/30/08	31.95	Not Available as Not Sampled					
MW-7	12/30/08	43.8	Not Available as Not Sampled					
MW-9	12/17/08	10.81	6.6	15.1	130	60	60	NR
MW-10	12/30/08	38.43	Not Available as Not Sampled					
MW-11	12/30/08	40.85	Not Available as Not Sampled					
MW-12	12/17/08	55.5	5.9	15.5	150	70	0.5	-133
MW-12D	12/17/08	64.51	6.7	15.9	710	350	1.8	-152
MW-13	12/30/08	42.61	6.1	15.1	200	90	0.9	-93
MW-14	12/30/08	39.01	Not Available as Not Sampled					
MW-15	12/30/08	22.93	Not Available as Not Sampled					
MW-16	12/30/08	31.9	6.8	16.2	90	40	0.7	-180
MW-17	12/30/08	17.45	6.6	15.4	130	60	1	-120
MW-18	12/30/08	55.2	6.1	15.8	40	20	1.4	-119
MW-19	12/30/08	53.4	Not Available as Not Sampled					
MW-20	12/30/08	40.93	6	16	60	20	1.3	-86
MW-21	12/30/08	32.14	6.3	16.3	70	30	1.4	-110
MW-22	12/30/08	15.5	6.3	15.3	20	10	4.9	-90
MW-23	12/30/08	17.74	6.3	16.2	140	60	2.1	-63
MW-24	12/17/08	33.1	5.6	15.5	210	100	0.7	-280
MW-25	12/17/08	32.93	5.3	16	210	100	0.9	-81
MW-26	12/17/08	28.24	0.5	16.1	600	290	0.5	-190
MW-27	12/30/08	20.35	Not Available as Not Sampled					
SW-3	12/17/08	-	6.2	5.3	30	10	0.9	-210
SW-4		Dry No Sample						
SW-4R	12/30/08	-	6.9	5.5	180	80	5.3	-210
SW-5	12/30/08	-	6.8	5.3	220	110	1.2	-210

NR = No Reading Attempted

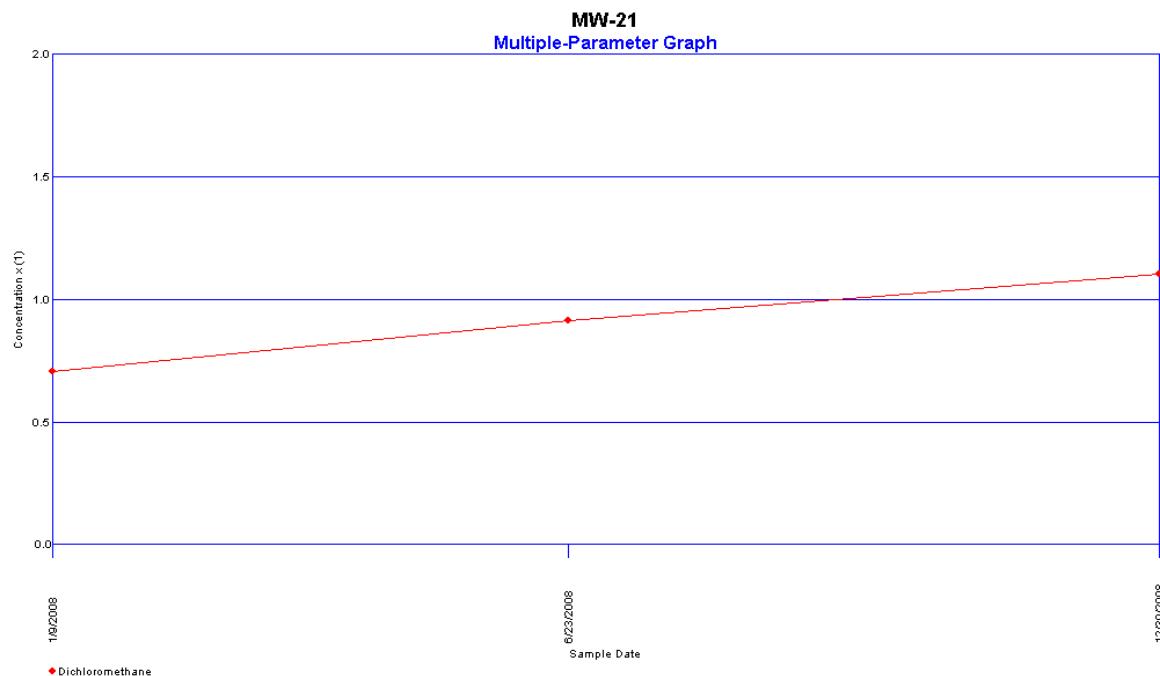
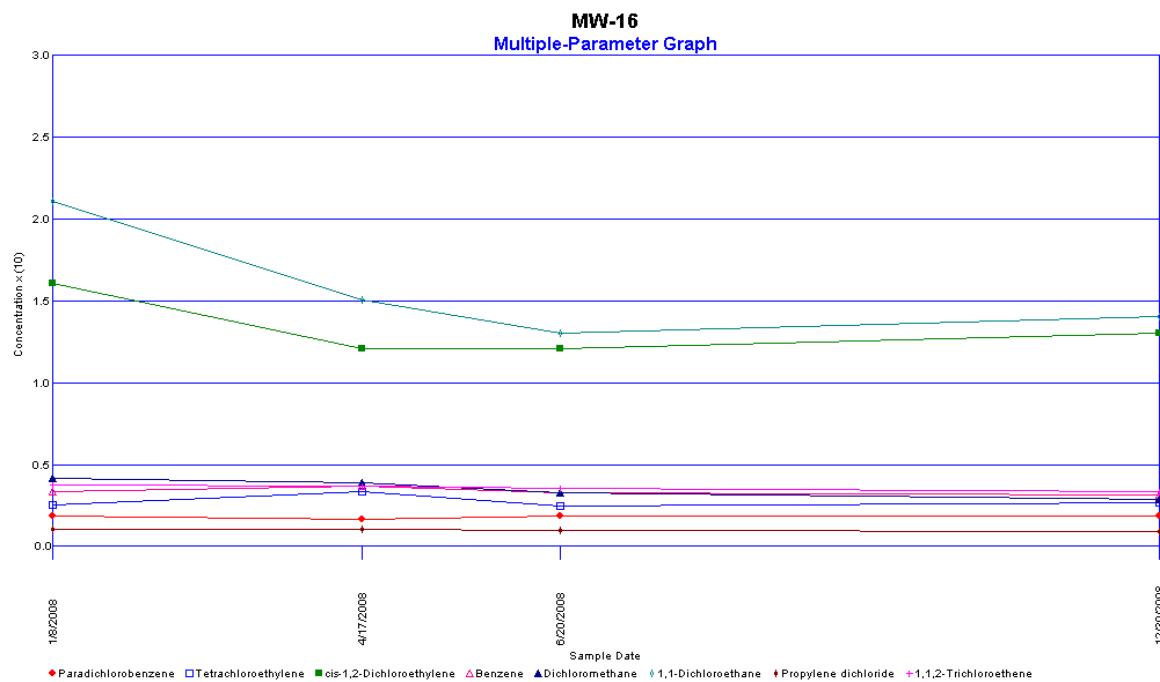
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill
ND Represented with Detection Limit



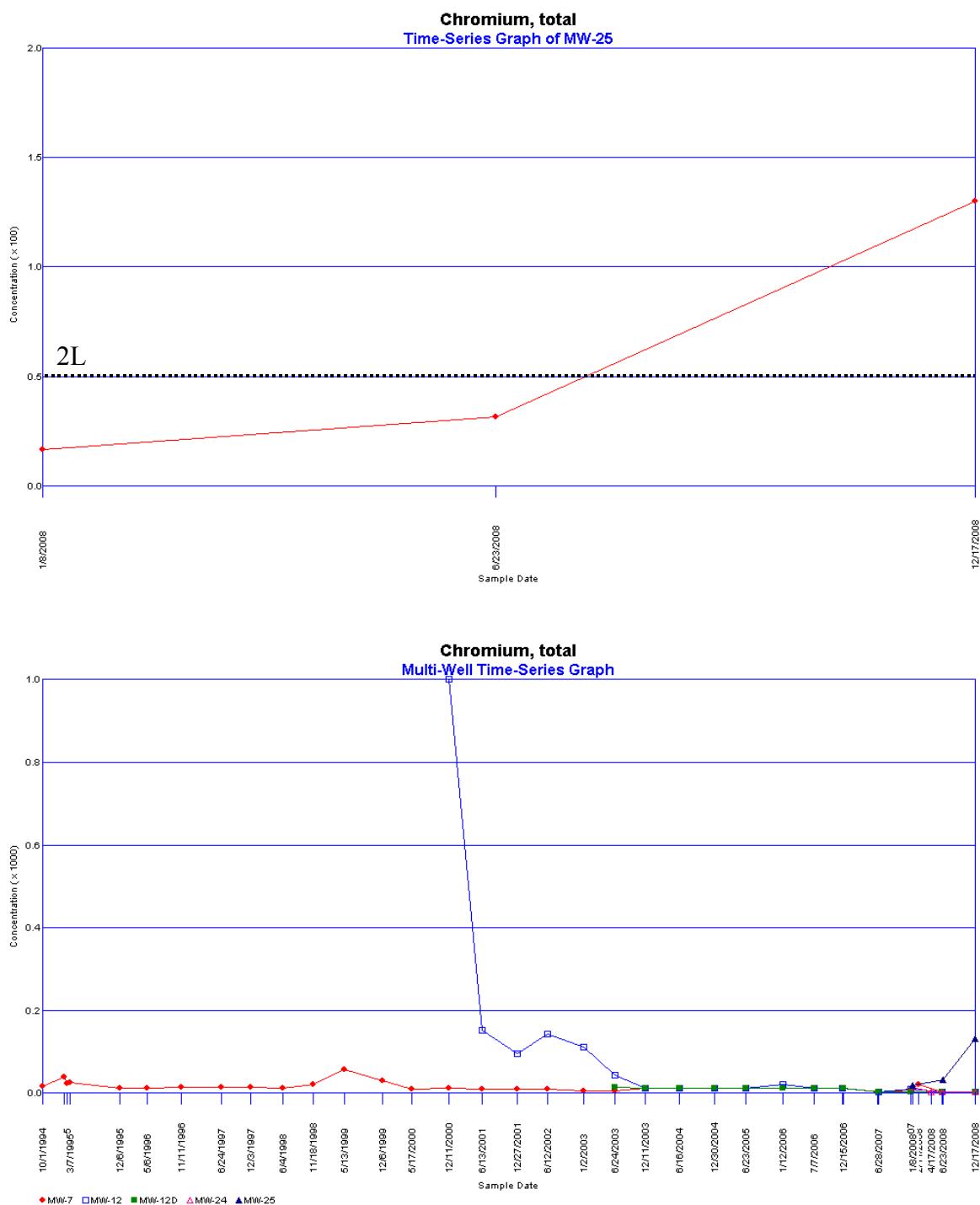
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill
ND Represented with Detection Limit



Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill
ND Represented with Detection Limit



Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill
ND Represented with Detection Limit



Sampling Data Sheet



Project: Alexander Co. Closed MSWLF and Active C&D LF

Samplers: J. Pfohl p. 1 of 2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters										Water Quality Parameters					
			Depth to Water Static	Lab Parameters to be analyzed for	Volume Sample (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Cl ⁻ (mg/l)	DO (mg/l)	ORP	pH	Temp. °C	Specific Cond. (µs/cm)	TDS (mg/L)	Turbidity (NTU)	CH4 (ppm)
MW-9	10/17/08	10:30	10.81	Turb	8	NDB	Y		31.5	NR	NR	6.6	15.1	130	60	C	NR	
SW-3		11:00	-	T	-	Dip	-	-	0.9	-30	6.3	5.3	3.0	10	C	NR		
MW-26		12:10	28.34	T	13	PDB	N	49.8	0.5	+90	5.8	16.1	600	290	C	NR		
MW-12D		1:10	64.51	T	21	PDB	Y	102.5	1.8	-153	6.7	15.9	710	350	C	NR		
MW-13		1:45	55.50	T	5	PDB	N	66.5	0.5	-133	5.9	15.5	150	70	C	NR		
MW-24		2:20	33.10	T	3	PDB	N	35.35	0.7	-280	5.6	15.5	210	100	C	NR		
MW-25	↓	3:00	32.93	T	8	PDB	N	44.48	0.9	-81	5.3	16.0	810	180	MT	NR		
MW-16	10/20/08	11:00	31.90	T	6	PDB	N	40.35	0.7	-180	6.8	6.2	90	40	C	NR		
SW-5		11:20	-	T	↓	-	-	NR	1.2	-210	6.8	5.3	220	110	C	NR		
MW-5		NS	43.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-13		12:00	42.61	T	4	PDB	Y	60.50	NR	0.9	93	6.1	15.1	800	90	C	NR	
MW-10		NS	31.95	-	-	-	-	42	-	-	-	-	-	-	-	-	-	
MW-23		12:40	17.74	T	4	PDB	Y	21.54	NR	8.1	6.3	6.3	400	60	ST	NR		
SW-4R		1:55	-	T	-	Dip	-	-	NR	5.3	240	6.9	5.5	180	20	C		
MW-22		1:20	15.50	T	3	PDB	Y	18.12	NR	4.9	9.0	6.3	15.3	20	10	C		
MW-21	↓	2:00	32.14	T	7	PDB	N	41.05	NR	1.4	-110	6.3	16.3	70	30	C		
MW-17	↓	2:45	17.45	T	3	DB	Y	22.30	NR	1.0	-120	6.6	15.4	130	60	C		↓

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=L Low flow Pump, PD= Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Cleat

NR = No Reading Available

Sampling Data Sheet

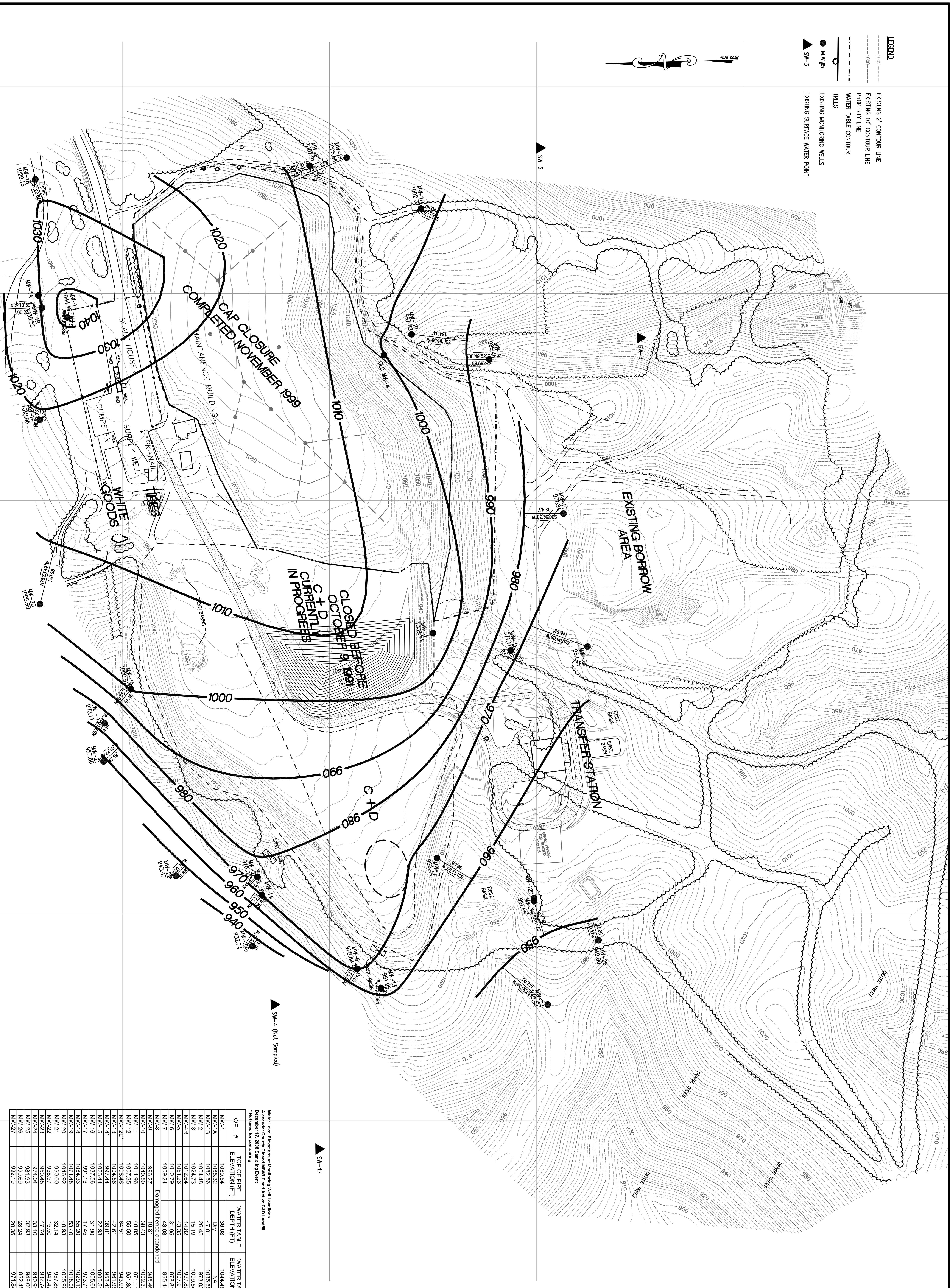


Project: Alexander Co. Closed MSWLF and Active C&D LF

Samplers: J. Pfeil 1,2,6,2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters				Water Quality Parameters											
			Depth to Water (BTOB Static)	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Cr (mg/l)	DO (mg/l)	ORP	pH	Temp (°C)	Specific Cond. (us/cm)	TDS (mg/l)	Turbidity (ppm)	CH4 (ppm)
MW-20	12/30/08	2:15	40.93	T+Hg	13	PADB	Y		63.55	NR	1.3	-86	6.0	16.0	60	20	C	NR
MW-1B		3:25	47.01	T	7	PADB	N		61	0.9	+170	6.3	75	30	30	C		
MW-1		4:00	46.08	T	7	>1	DR	Y	40	0.7	-63	6.4	15.9	610	300	C		
MW-18		4:40	55.70	T	8.5	DR	Y		56.70	1.4	-19	6.1	15.8	40	30	C		
MW-27	NS	-	30.35															
MW-11			40.85															
MW-19			53.40															
MW-14			39.61															
MW-2			36.45															
MW-10			38.43															
MW-4R			14.82															
MW-3			15.19															
MW-7			43.80															
MW-15		↓	33.93															
MW-1A	NS	-	DRY															
EB	1a.30/08	4:50	Food Lien	D	Distilled H ₂ O	D	Disposable Baler											
FB		5:00																

Comments
 MW-24 DRY
 SS=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD= Purged Dry
 VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear
 NR= Not Readable, Appended



Laboratory Results

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090

FAX: 919.467.3515



www.encolabs.com

Monday, January 12, 2009

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for

Project Number: G08003.0, Project Name/Desc: Alexander Co. Closed C&D LF - App Is

ENCO Workorder: C813459

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, December 19, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith".

Chuck Smith

Project Manager

Enclosure(s)



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-9		Lab ID: C813459-01	Sampled: 12/17/08 10:30	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	11:18
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:26
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:24
EPA 8260B	12/31/08	12/19/08 08:04	12/19/2008	21:37

Client ID: SW-3		Lab ID: C813459-02	Sampled: 12/17/08 11:00	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	11:41
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:09
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:27
EPA 8260B	12/31/08	12/19/08 08:04	12/19/2008	22:06

Client ID: MW-26		Lab ID: C813459-03	Sampled: 12/17/08 12:10	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	11:48
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:30
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:29
EPA 8260B	12/31/08	12/19/08 08:04	12/19/2008	22:35

Client ID: MW-12D		Lab ID: C813459-04	Sampled: 12/17/08 13:10	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	11:56
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:33
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:33
EPA 8260B	12/31/08	12/20/08 14:23	12/20/2008	21:39

Client ID: MW-12		Lab ID: C813459-05	Sampled: 12/17/08 13:45	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	12:03
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:44
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:36
EPA 8260B	12/31/08	12/20/08 14:23	12/20/2008	22:08

Client ID: MW-24		Lab ID: C813459-06	Sampled: 12/17/08 14:20	Received: 12/19/08 08:30
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010B	06/15/09	12/21/08 15:34	1/2/2009	12:10
EPA 6020	06/15/09	12/21/08 15:35	1/6/2009	10:48
EPA 7470A	01/14/09	12/19/08 09:00	12/19/2008	17:39
EPA 8260B	12/31/08	12/20/08 14:23	12/20/2008	22:37



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Client ID:	MW-25	Lab ID:	C813459-07	Sampled:	12/17/08 15:00	Received:	12/19/08 08:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/15/09		12/21/08	15:34	1/2/2009	12:37
EPA 6020		06/15/09		12/21/08	15:35	1/6/2009	10:51
EPA 7470A		01/14/09		12/19/08	09:00	12/19/2008	17:42
EPA 8260B		12/31/08		12/20/08	14:23	12/20/2008	23:06

Client ID:	MW-16	Lab ID:	C900006-01	Sampled:	12/30/08 11:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:03
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	12:56
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:01
EPA 8260B		01/13/09		01/03/09	14:43	1/4/2009	00:44

Client ID:	SW-5	Lab ID:	C900006-02	Sampled:	12/30/08 11:20	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:10
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:00
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:04
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	18:57

Client ID:	MW-13	Lab ID:	C900006-03	Sampled:	12/30/08 12:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:18
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:03
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:06
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	19:26

Client ID:	MW-23	Lab ID:	C900006-04	Sampled:	12/30/08 12:40	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:41
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:07
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:16
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	19:54

Client ID:	SW-4R	Lab ID:	C900006-05	Sampled:	12/30/08 12:55	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:48
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:10
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:19
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	20:22



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Client ID:	MW-22	Lab ID:	C900006-06	Sampled:	12/30/08 13:20	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	12:55
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:14
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:21
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	20:50

Client ID:	MW-21	Lab ID:	C900006-07	Sampled:	12/30/08 14:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	13:02
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:17
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:25
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	21:18

Client ID:	MW-17	Lab ID:	C900006-08	Sampled:	12/30/08 14:45	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	13:09
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:21
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:28
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	21:46

Client ID:	MW-20	Lab ID:	C900006-09	Sampled:	12/30/08 15:10	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	13:17
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:31
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:31
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	22:14

Client ID:	MW-1B (MS/MSD)	Lab ID:	C900006-10	Sampled:	12/30/08 15:35	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	11:26
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	12:29
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	14:44
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	15:11

Client ID:	MW-1	Lab ID:	C900006-11	Sampled:	12/30/08 16:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	13:24
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:34
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:33
EPA 8260B		01/13/09		01/02/09	12:19	1/2/2009	22:42



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Client ID:	MW-18	Lab ID:	C900006-12	Sampled:	12/30/08 16:40	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B		06/28/09		01/02/09	11:15	1/9/2009	13:40
EPA 6020		06/28/09		01/02/09	11:21	1/6/2009	13:38
EPA 7470A		01/27/09		01/05/09	09:03	1/5/2009	15:36
EPA 8260B		01/13/09		01/03/09	14:43	1/4/2009	01:15

Client ID:	EB	Lab ID:	C900006-13	Sampled:	12/30/08 16:50	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		01/13/09		01/02/09	12:45	1/3/2009	05:17

Client ID:	FB	Lab ID:	C900006-14	Sampled:	12/30/08 17:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		01/13/09		01/02/09	12:45	1/3/2009	05:45

Client ID:	TB	Lab ID:	C900006-15	Sampled:	12/30/08 11:00	Received:	01/02/09 08:50
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		01/13/09		01/02/09	12:45	1/3/2009	06:13

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-9		Lab ID: C813459-01								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane		1.7	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium		112		1	1.00	10.0	100	ug/L	EPA 6010B	
Chloroethane		1.0	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene		16		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt		6.5	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Nickel		31.8	J	1	1.8	10.0	50	ug/L	EPA 6010B	

Client ID: SW-3		Lab ID: C813459-02								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane		0.87	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene		0.88	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Barium		110		1	1.00	10.0	100	ug/L	EPA 6010B	
Chloroethane		0.44	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene		3.7	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt		129		1	1.1	10.0	10	ug/L	EPA 6010B	
Nickel		3.1	J	1	1.8	10.0	50	ug/L	EPA 6010B	

Client ID: MW-26		Lab ID: C813459-03								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane		1.2	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene		3.1		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium		95.8	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene		1.7		1	0.20	1.0	1	ug/L	EPA 8260B	
Chlorobenzene		0.73	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane		0.94	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Chromium		10.3		1	1.0	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene		26		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt		54.7		1	1.1	10.0	10	ug/L	EPA 6010B	
Nickel		20.9	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc		39.5		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-12D		Lab ID: C813459-04								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane		0.79	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Acetone		5.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium		8.40	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene		0.47	J	1	0.20	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene		0.90	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Nickel		2.5	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc		23.4		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-12		Lab ID: C813459-05								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane		3.7	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene		6.9		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetone		5.9	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium		97.3	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene		6.2		1	0.20	1.0	1	ug/L	EPA 8260B	



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Client ID: MW-12		Lab ID: C813459-05							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chlorobenzene	1.6	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	2.8	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	12		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	2.1	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Methylene chloride	1.2	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel	1.8	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	1.1		1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	2.1		1	0.38	1.0	1	ug/L	EPA 8260B	
Zinc	8.5	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-24		Lab ID: C813459-06							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.95	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.6		1	0.38	1.0	1	ug/L	EPA 8260B	
Arsenic	3.2	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium	99.4	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	1.2		1	0.20	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.53	J	1	0.27	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	6.4		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	39.7		1	1.1	10.0	10	ug/L	EPA 6010B	
Nickel	3.4	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc	14.0		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-25		Lab ID: C813459-07							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.3	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.1		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium	283		1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	0.87	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Chloroethane	0.76	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Chromium	130		1	1.0	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	1.3	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	9.3	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	5.90	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Lead	8.7	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Nickel	59.1		1	1.8	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.60	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.52	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium	66.1		1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	74.4		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-16		Lab ID: C900006-01							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	14		1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	0.83	J	1	0.20	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.8		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium	60.2	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	3.1		1	0.20	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.41	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	0.87	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	13		1	0.36	1.0	5	ug/L	EPA 8260B	

Client ID: MW-16		Lab ID: C900006-01								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
Cobalt	14.6		1	1.1	10.0	10	ug/L	EPA 6010B		
Mercury	0.39		1	0.11	0.20	0.2	ug/L	EPA 7470A		
Methylene chloride	2.8		1	0.53	2.0	1	ug/L	EPA 8260B		
Nickel	6.2	J	1	1.8	10.0	50	ug/L	EPA 6010B		
Tetrachloroethene	2.6		1	0.36	1.0	1	ug/L	EPA 8260B		
Trichloroethene	3.3		1	0.38	1.0	1	ug/L	EPA 8260B		
Xylenes (Total)	1.9	J	1	0.40	1.0	5	ug/L	EPA 8260B		
Zinc	7.7	J	1	3.8	10.0	10	ug/L	EPA 6010B		

Client ID: SW-5		Lab ID: C900006-02								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
Barium	18.8	J	1	1.00	10.0	100	ug/L	EPA 6010B		
Cobalt	3.7	J	1	1.1	10.0	10	ug/L	EPA 6010B		

Client ID: MW-13		Lab ID: C900006-03								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
Barium	17.9	J	1	1.00	10.0	100	ug/L	EPA 6010B		
Cobalt	4.4	J	1	1.1	10.0	10	ug/L	EPA 6010B		
Nickel	10.3	J	1	1.8	10.0	50	ug/L	EPA 6010B		

Client ID: MW-23		Lab ID: C900006-04								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
1,1-Dichloroethane	0.68	J	1	0.33	1.0	5	ug/L	EPA 8260B		
1,4-Dichlorobenzene	0.65	J	1	0.38	1.0	1	ug/L	EPA 8260B		
Barium	97.2	J	1	1.00	10.0	100	ug/L	EPA 6010B		
Chromium	7.4	J	1	1.0	10.0	10	ug/L	EPA 6010B		
cis-1,2-Dichloroethene	4.6	J	1	0.36	1.0	5	ug/L	EPA 8260B		
Cobalt	10.5		1	1.1	10.0	10	ug/L	EPA 6010B		
Lead	4.7	J	1	1.9	10.0	10	ug/L	EPA 6010B		
Mercury	0.11	J	1	0.11	0.20	0.2	ug/L	EPA 7470A		
Nickel	12.4	J	1	1.8	10.0	50	ug/L	EPA 6010B		
Trichloroethene	0.42	J	1	0.38	1.0	1	ug/L	EPA 8260B		
Vanadium	4.6	J	1	1.4	10.0	25	ug/L	EPA 6010B		
Zinc	11.6		1	3.8	10.0	10	ug/L	EPA 6010B		

Client ID: SW-4R		Lab ID: C900006-05								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
Barium	42.8	J	1	1.00	10.0	100	ug/L	EPA 6010B		

Client ID: MW-22		Lab ID: C900006-06								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
Barium	36.5	J	1	1.00	10.0	100	ug/L	EPA 6010B		

Client ID: MW-21		Lab ID: C900006-07								
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes	
1,1-Dichloroethane	2.5	J	1	0.33	1.0	5	ug/L	EPA 8260B		
Barium	54.2	J	1	1.00	10.0	100	ug/L	EPA 6010B		
Benzene	1.0		1	0.20	1.0	1	ug/L	EPA 8260B		
cis-1,2-Dichloroethene	2.4	J	1	0.36	1.0	5	ug/L	EPA 8260B		
Cobalt	7.7	J	1	1.1	10.0	10	ug/L	EPA 6010B		
Mercury	1.14		1	0.11	0.20	0.2	ug/L	EPA 7470A		

Client ID: MW-21		Lab ID: C900006-07							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methylene chloride	1.1	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel	6.2	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.52	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.85	J	1	0.38	1.0	1	ug/L	EPA 8260B	

Client ID: MW-17		Lab ID: C900006-08							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.7	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium	64.5	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	0.81	J	1	0.20	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	2.0	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	22.4		1	1.1	10.0	10	ug/L	EPA 6010B	
Mercury	0.34		1	0.11	0.20	0.2	ug/L	EPA 7470A	
Nickel	5.3	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Trichloroethene	0.53	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Zinc	4.2	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-20		Lab ID: C900006-09							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.59	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium	190		1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	7.7	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	6.9	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	12.0		1	1.60	10.0	10	ug/L	EPA 6010B	
Lead	3.3	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Nickel	15.4	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Vanadium	7.7	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	10.1		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-1B (MS/MSD)		Lab ID: C900006-10							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.5	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.8		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium	32.9	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	1.4		1	0.20	1.0	1	ug/L	EPA 8260B	
Carbon disulfide	0.66	J	1	0.54	5.0	100	ug/L	EPA 8260B	
Chromium	2.7	J	1	1.0	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	4.1	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	14.0		1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	2.00	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Lead	5.3	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Mercury	0.32		1	0.11	0.20	0.2	ug/L	EPA 7470A	
Methylene chloride	1.2	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel	6.7	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Trichloroethene	0.43	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium	3.4	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Xylenes (Total)	2.2	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc	48.9		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-1		Lab ID: C900006-11							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes



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Client ID: MW-1		Lab ID: C900006-11							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.5	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.2		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium	63.2	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Benzene	4.5		1	0.20	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	8.8		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt	31.2		1	1.1	10.0	10	ug/L	EPA 6010B	
Lead	6.1	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Mercury	0.17	J	1	0.11	0.20	0.2	ug/L	EPA 7470A	
Nickel	17.1	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Xylenes (Total)	0.41	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc	356		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: MW-18		Lab ID: C900006-12							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	39.8	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	3.8	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	6.6	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	16.0		1	1.60	10.0	10	ug/L	EPA 6010B	
Lead	4.8	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Nickel	8.9	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Vanadium	9.2	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	22.7		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: EB		Lab ID: C900006-13							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	14	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Chloroform	0.43	J	1	0.20	1.0	5	ug/L	EPA 8260B	

Client ID: FB		Lab ID: C900006-14							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	15	J	1	1.5	5.0	100	ug/L	EPA 8260B	

Client ID: TB		Lab ID: C900006-15							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methylene chloride	0.78	J	1	0.53	2.0	1	ug/L	EPA 8260B	

ANALYTICAL RESULTS

Description: MW-9

Lab Sample ID: C813459-01

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 10:30

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/19/08 21:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,1-Dichloroethane [75-34-3] ^	1.7	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/19/08 21:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/19/08 21:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/19/08 21:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/19/08 21:37	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/19/08 21:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/19/08 21:37	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/19/08 21:37	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/19/08 21:37	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/19/08 21:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/19/08 21:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/19/08 21:37	JKG	
Chloroethane [75-00-3] ^	1.0	J	ug/L	1	0.30	1.0	10	EPA 8260B	12/19/08 21:37	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	16		ug/L	1	0.36	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/19/08 21:37	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/19/08 21:37	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/19/08 21:37	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/19/08 21:37	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/19/08 21:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/19/08 21:37	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 21:37	JKG	



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Description: MW-9

Lab Sample ID: C813459-01

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 10:30

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/19/08 21:37	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/19/08 21:37	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 21:37	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	42	1	50.0	85 %	51-122	8L19002	EPA 8260B	12/19/08 21:37	JKG	
Dibromofluoromethane	49	1	50.0	98 %	68-117	8L19002	EPA 8260B	12/19/08 21:37	JKG	
Toluene-d8	47	1	50.0	94 %	69-110	8L19002	EPA 8260B	12/19/08 21:37	JKG	

Description: MW-9

Lab Sample ID: C813459-01

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 10:30

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:26	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Barium [7440-39-3] ^	11.2		ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 11:18	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 11:18	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 11:18	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Cobalt [7440-48-4] ^	6.5	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:24	NLH	
Nickel [7440-02-0] ^	31.8	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 11:18	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:18	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:26	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 11:18	VLO	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 11:18	VLO	

Description: SW-3

Lab Sample ID: C813459-02

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 11:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/19/08 22:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,1-Dichloroethane [75-34-3] ^	0.87	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/19/08 22:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.88	J	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/19/08 22:06	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/19/08 22:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/19/08 22:06	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/19/08 22:06	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/19/08 22:06	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/19/08 22:06	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/19/08 22:06	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/19/08 22:06	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/19/08 22:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/19/08 22:06	JKG	
Chloroethane [75-00-3] ^	0.44	J	ug/L	1	0.30	1.0	10	EPA 8260B	12/19/08 22:06	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	3.7	J	ug/L	1	0.36	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/19/08 22:06	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/19/08 22:06	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/19/08 22:06	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/19/08 22:06	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/19/08 22:06	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 22:06	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/19/08 22:06	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/19/08 22:06	JKG	



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Description: SW-3

Lab Sample ID: C813459-02

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 11:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 22:06	JKG	
<hr/>											
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
4-Bromofluorobenzene	44	1	50.0	87 %	51-122	8L19002	EPA 8260B	12/19/08 22:06	JKG		
Dibromofluoromethane	50	1	50.0	100 %	68-117	8L19002	EPA 8260B	12/19/08 22:06	JKG		
Toluene-d8	48	1	50.0	95 %	69-110	8L19002	EPA 8260B	12/19/08 22:06	JKG		



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Description: SW-3

Lab Sample ID: C813459-02

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 11:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:09	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Barium [7440-39-3] ^	110		ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 11:41	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 11:41	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 11:41	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Cobalt [7440-48-4] ^	129		ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:27	NLH	
Nickel [7440-02-0] ^	3.1	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 11:41	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:41	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:09	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 11:41	VLO	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 11:41	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: MW-26

Lab Sample ID: C813459-03

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 12:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/19/08 22:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,1-Dichloroethane [75-34-3] ^	1.2	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/19/08 22:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	3.1		ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/19/08 22:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/19/08 22:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/19/08 22:35	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/19/08 22:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/19/08 22:35	JKG	
Benzene [71-43-2] ^	1.7		ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/19/08 22:35	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/19/08 22:35	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/19/08 22:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/19/08 22:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Chlorobenzene [108-90-7] ^	0.73	J	ug/L	1	0.27	1.0	3	EPA 8260B	12/19/08 22:35	JKG	
Chloroethane [75-00-3] ^	0.94	J	ug/L	1	0.30	1.0	10	EPA 8260B	12/19/08 22:35	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	26		ug/L	1	0.36	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/19/08 22:35	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/19/08 22:35	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/19/08 22:35	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/19/08 22:35	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/19/08 22:35	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/19/08 22:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/19/08 22:35	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/19/08 22:35	JKG	



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Description: MW-26

Lab Sample ID: C813459-03

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 12:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/19/08 22:35	JKG	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	88 %	51-122	8L19002	EPA 8260B	12/19/08 22:35	JKG		
Dibromofluoromethane	50	1	50.0	100 %	68-117	8L19002	EPA 8260B	12/19/08 22:35	JKG		
Toluene-d8	47	1	50.0	95 %	69-110	8L19002	EPA 8260B	12/19/08 22:35	JKG		

Description: MW-26

Lab Sample ID: C813459-03

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 12:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:30	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Barium [7440-39-3] ^	95.8	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 11:48	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 11:48	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 11:48	VLO	
Chromium [7440-47-3] ^	10.3		ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Cobalt [7440-48-4] ^	54.7		ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:29	NLH	
Nickel [7440-02-0] ^	20.9	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 11:48	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:48	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:30	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 11:48	VLO	
Zinc [7440-66-6] ^	39.5		ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 11:48	VLO	

Description: MW-12D

Lab Sample ID: C813459-04

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/20/08 21:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,1-Dichloroethane [75-34-3] ^	0.79	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/20/08 21:39	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/20/08 21:39	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/20/08 21:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/20/08 21:39	JKG	
Acetone [67-64-1] ^	5.4	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/20/08 21:39	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/20/08 21:39	JKG	
Benzene [71-43-2] ^	0.47	J	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/20/08 21:39	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/20/08 21:39	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/20/08 21:39	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/20/08 21:39	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/20/08 21:39	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/20/08 21:39	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.90	J	ug/L	1	0.36	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/20/08 21:39	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/20/08 21:39	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/20/08 21:39	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/20/08 21:39	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/20/08 21:39	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 21:39	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/20/08 21:39	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/20/08 21:39	JKG	



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Description: MW-12D

Lab Sample ID: C813459-04

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 21:39	JKG	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	88 %	51-122	8L20002	EPA 8260B	12/20/08 21:39	JKG		
Dibromofluoromethane	48	1	50.0	95 %	68-117	8L20002	EPA 8260B	12/20/08 21:39	JKG		
Toluene-d8	46	1	50.0	93 %	69-110	8L20002	EPA 8260B	12/20/08 21:39	JKG		

Description: MW-12D

Lab Sample ID: C813459-04

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:10

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:33	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Barium [7440-39-3] ^	8.40	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 11:56	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 11:56	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 11:56	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:33	NLH	
Nickel [7440-02-0] ^	2.5	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 11:56	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 11:56	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:33	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 11:56	VLO	
Zinc [7440-66-6] ^	23.4		ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 11:56	VLO	

Description: MW-12

Lab Sample ID: C813459-05

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:45

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/20/08 22:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,1-Dichloroethane [75-34-3] ^	3.7	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/20/08 22:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	6.9		ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/20/08 22:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/20/08 22:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/20/08 22:08	JKG	
Acetone [67-64-1] ^	5.9	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/20/08 22:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/20/08 22:08	JKG	
Benzene [71-43-2] ^	6.2		ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/20/08 22:08	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/20/08 22:08	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/20/08 22:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/20/08 22:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Chlorobenzene [108-90-7] ^	1.6	J	ug/L	1	0.27	1.0	3	EPA 8260B	12/20/08 22:08	JKG	
Chloroethane [75-00-3] ^	2.8	J	ug/L	1	0.30	1.0	10	EPA 8260B	12/20/08 22:08	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	12		ug/L	1	0.36	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/20/08 22:08	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/20/08 22:08	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/20/08 22:08	JKG	
Methylene chloride [75-09-2] ^	1.2	J	ug/L	1	0.53	2.0	1	EPA 8260B	12/20/08 22:08	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Tetrachloroethene [127-18-4] ^	1.1		ug/L	1	0.36	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/20/08 22:08	JKG	
Trichloroethene [79-01-6] ^	2.1		ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 22:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/20/08 22:08	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/20/08 22:08	JKG	



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Description: MW-12

Lab Sample ID: C813459-05

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:45

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 22:08	JKG	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	88 %	51-122	8L20002	EPA 8260B	12/20/08 22:08	JKG		
Dibromofluoromethane	48	1	50.0	96 %	68-117	8L20002	EPA 8260B	12/20/08 22:08	JKG		
Toluene-d8	46	1	50.0	93 %	69-110	8L20002	EPA 8260B	12/20/08 22:08	JKG		

Description: MW-12

Lab Sample ID: C813459-05

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 13:45

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:44	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Barium [7440-39-3] ^	97.3	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 12:03	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 12:03	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 12:03	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Cobalt [7440-48-4] ^	2.1	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:36	NLH	
Nickel [7440-02-0] ^	1.8	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 12:03	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:03	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:44	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 12:03	VLO	
Zinc [7440-66-6] ^	8.5	J	ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 12:03	VLO	

Description: MW-24

Lab Sample ID: C813459-06

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 14:20

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/20/08 22:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.95	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/20/08 22:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	2.6		ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/20/08 22:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/20/08 22:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/20/08 22:37	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/20/08 22:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/20/08 22:37	JKG	
Benzene [71-43-2] ^	1.2		ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/20/08 22:37	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/20/08 22:37	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/20/08 22:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/20/08 22:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Chlorobenzene [108-90-7] ^	0.53	J	ug/L	1	0.27	1.0	3	EPA 8260B	12/20/08 22:37	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/20/08 22:37	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	6.4		ug/L	1	0.36	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/20/08 22:37	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/20/08 22:37	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/20/08 22:37	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/20/08 22:37	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/20/08 22:37	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 22:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/20/08 22:37	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/20/08 22:37	JKG	

Description: MW-24

Lab Sample ID: C813459-06

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 14:20

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 22:37	JKG	
<hr/>											
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
4-Bromofluorobenzene	44	1	50.0	87 %	51-122	8L20002	EPA 8260B	12/20/08 22:37	JKG		
Dibromofluoromethane	49	1	50.0	98 %	68-117	8L20002	EPA 8260B	12/20/08 22:37	JKG		
Toluene-d8	47	1	50.0	94 %	69-110	8L20002	EPA 8260B	12/20/08 22:37	JKG		

Description: MW-24

Lab Sample ID: C813459-06

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 14:20

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:48	JDH	
Arsenic [7440-38-2] ^	3.2	J	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Barium [7440-39-3] ^	99.4	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 12:10	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 12:10	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 12:10	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Cobalt [7440-48-4] ^	39.7		ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:39	NLH	
Nickel [7440-02-0] ^	3.4	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 12:10	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:10	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:48	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 12:10	VLO	
Zinc [7440-66-6] ^	14.0		ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 12:10	VLO	

Description: MW-25

Lab Sample ID: C813459-07

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 15:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/20/08 23:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,1-Dichloroethane [75-34-3] ^	2.3	J	ug/L	1	0.33	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/20/08 23:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	1.1		ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/20/08 23:06	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/20/08 23:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/20/08 23:06	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/20/08 23:06	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/20/08 23:06	JKG	
Benzene [71-43-2] ^	0.87	J	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/20/08 23:06	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/20/08 23:06	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/20/08 23:06	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/20/08 23:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/20/08 23:06	JKG	
Chloroethane [75-00-3] ^	0.76	J	ug/L	1	0.30	1.0	10	EPA 8260B	12/20/08 23:06	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	1.3	J	ug/L	1	0.36	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/20/08 23:06	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/20/08 23:06	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/20/08 23:06	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/20/08 23:06	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Tetrachloroethene [127-18-4] ^	0.60	J	ug/L	1	0.36	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/20/08 23:06	JKG	
Trichloroethene [79-01-6] ^	0.52	J	ug/L	1	0.38	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/20/08 23:06	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/20/08 23:06	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/20/08 23:06	JKG	

Description: MW-25

Lab Sample ID: C813459-07

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 15:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/20/08 23:06	JKG	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	88 %	51-122		8L20002	EPA 8260B	12/20/08 23:06	JKG	
Dibromofluoromethane	49	1	50.0	97 %	68-117		8L20002	EPA 8260B	12/20/08 23:06	JKG	
Toluene-d8	47	1	50.0	94 %	69-110		8L20002	EPA 8260B	12/20/08 23:06	JKG	

Description: MW-25

Lab Sample ID: C813459-07

Received: 12/19/08 08:30

Matrix: Ground Water

Sampled: 12/17/08 15:00

Work Order: C813459

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: J. Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 10:51	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Barium [7440-39-3] ^	283		ug/L	1	1.00	10.0	100	EPA 6010B	01/02/09 12:37	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/02/09 12:37	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/02/09 12:37	VLO	
Chromium [7440-47-3] ^	130		ug/L	1	1.0	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Cobalt [7440-48-4] ^	9.3	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Copper [7440-50-8] ^	5.90	J	ug/L	1	1.60	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Lead [7439-92-1] ^	8.7	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	12/19/08 17:42	NLH	
Nickel [7440-02-0] ^	59.1		ug/L	1	1.8	10.0	50	EPA 6010B	01/02/09 12:37	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/02/09 12:37	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 10:51	JDH	
Vanadium [7440-62-2] ^	66.1		ug/L	1	1.4	10.0	25	EPA 6010B	01/02/09 12:37	VLO	
Zinc [7440-66-6] ^	74.4		ug/L	1	3.8	10.0	10	EPA 6010B	01/02/09 12:37	VLO	

Description: MW-16

Lab Sample ID: C900006-01

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/04/09 00:44	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,1-Dichloroethane [75-34-3] ^	14		ug/L	1	0.33	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/04/09 00:44	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,2-Dichloropropane [78-87-5] ^	0.83	J	ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
1,4-Dichlorobenzene [106-46-7] ^	1.8		ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/04/09 00:44	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/04/09 00:44	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/04/09 00:44	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/04/09 00:44	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/04/09 00:44	JKG	
Benzene [71-43-2] ^	3.1		ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/04/09 00:44	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/04/09 00:44	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/04/09 00:44	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/04/09 00:44	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Chlorobenzene [108-90-7] ^	0.41	J	ug/L	1	0.27	1.0	3	EPA 8260B	01/04/09 00:44	JKG	
Chloroethane [75-00-3] ^	0.87	J	ug/L	1	0.30	1.0	10	EPA 8260B	01/04/09 00:44	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	13		ug/L	1	0.36	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/04/09 00:44	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/04/09 00:44	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/04/09 00:44	JKG	
Methylene chloride [75-09-2] ^	2.8		ug/L	1	0.53	2.0	1	EPA 8260B	01/04/09 00:44	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Tetrachloroethene [127-18-4] ^	2.6		ug/L	1	0.36	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/04/09 00:44	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/04/09 00:44	JKG	
Trichloroethene [79-01-6] ^	3.3		ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/04/09 00:44	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/04/09 00:44	JKG	
Xylenes (Total) [1330-20-7]	1.9	J	ug/L	1	0.40	1.0	5	EPA 8260B	01/04/09 00:44	JKG	



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Description: MW-16

Lab Sample ID: C900006-01

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
4-Bromofluorobenzene	46	1	50.0	93 %	51-122	9A03002	EPA 8260B	01/04/09 00:44	JKG		
Dibromofluoromethane	50	1	50.0	101 %	68-117	9A03002	EPA 8260B	01/04/09 00:44	JKG		
Toluene-d8	46	1	50.0	92 %	69-110	9A03002	EPA 8260B	01/04/09 00:44	JKG		

Description: MW-16

Lab Sample ID: C900006-01

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 12:56	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Barium [7440-39-3] ^	60.2	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:03	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:03	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:03	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Cobalt [7440-48-4] ^	14.6		ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Mercury [7439-97-6] ^	0.39		ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:01	NLH	
Nickel [7440-02-0] ^	6.2	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:03	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:03	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 12:56	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:03	JDH	
Zinc [7440-66-6] ^	7.7	J	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:03	JDH	

Description: SW-5

Lab Sample ID: C900006-02

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 18:57	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 18:57	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 18:57	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 18:57	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 18:57	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 18:57	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 18:57	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 18:57	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 18:57	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 18:57	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 18:57	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 18:57	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 18:57	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 18:57	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 18:57	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 18:57	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 18:57	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 18:57	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 18:57	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 18:57	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 18:57	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 18:57	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 18:57	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 18:57	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 18:57	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 18:57	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 18:57	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 18:57	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 18:57	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 18:57	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 18:57	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 18:57	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 18:57	REF	

Description: SW-5

Lab Sample ID: C900006-02

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 18:57	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	90 %	51-122	9A02015	EPA 8260B	01/02/09 18:57	REF		
Dibromofluoromethane	52	1	50.0	104 %	68-117	9A02015	EPA 8260B	01/02/09 18:57	REF		
Toluene-d8	48	1	50.0	95 %	69-110	9A02015	EPA 8260B	01/02/09 18:57	REF		

Description: SW-5

Lab Sample ID: C900006-02

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 11:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:00	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Barium [7440-39-3] ^	18.8	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:10	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:10	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:10	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Cobalt [7440-48-4] ^	3.7	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:04	NLH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:10	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:10	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:00	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:10	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:10	JDH	

Description: MW-13

Lab Sample ID: C900006-03

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 19:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 19:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 19:26	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 19:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 19:26	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 19:26	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:26	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 19:26	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 19:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 19:26	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 19:26	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 19:26	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 19:26	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 19:26	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 19:26	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 19:26	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 19:26	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 19:26	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 19:26	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 19:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 19:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 19:26	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 19:26	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 19:26	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 19:26	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 19:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 19:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 19:26	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 19:26	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 19:26	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 19:26	REF	



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Description: MW-13

Lab Sample ID: C900006-03

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 19:26	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	90 %	51-122	9A02015	EPA 8260B	01/02/09 19:26	REF		
Dibromofluoromethane	52	1	50.0	104 %	68-117	9A02015	EPA 8260B	01/02/09 19:26	REF		
Toluene-d8	47	1	50.0	94 %	69-110	9A02015	EPA 8260B	01/02/09 19:26	REF		

Description: MW-13

Lab Sample ID: C900006-03

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:03	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Barium [7440-39-3] ^	17.9	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:18	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:18	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:18	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Cobalt [7440-48-4] ^	4.4	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:06	NLH	
Nickel [7440-02-0] ^	10.3	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:18	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:18	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:03	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:18	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:18	JDH	

Description: MW-23

Lab Sample ID: C900006-04

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:40

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 19:54	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 19:54	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,1-Dichloroethane [75-34-3] ^	0.68	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 19:54	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 19:54	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 19:54	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 19:54	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:54	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.65	J	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:54	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 19:54	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 19:54	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 19:54	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 19:54	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 19:54	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 19:54	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 19:54	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 19:54	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 19:54	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 19:54	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 19:54	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 19:54	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 19:54	REF	
cis-1,2-Dichloroethene [156-59-2] ^	4.6	J	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 19:54	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 19:54	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 19:54	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 19:54	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 19:54	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 19:54	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 19:54	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:54	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 19:54	REF	
Trichloroethene [79-01-6] ^	0.42	J	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 19:54	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 19:54	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 19:54	REF	



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Description: MW-23**Lab Sample ID:** C900006-04**Received:** 01/02/09 08:50**Matrix:** Ground Water**Sampled:** 12/30/08 12:40**Work Order:** C900006**Project:** Alexander Co. Closed C&D LF - App Is**Sampled By:** Jonathan Pfohl**Volatile Organic Compounds by GCMS***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 19:54	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	91 %	51-122	9A02015	EPA 8260B	01/02/09 19:54	REF		
Dibromofluoromethane	53	1	50.0	105 %	68-117	9A02015	EPA 8260B	01/02/09 19:54	REF		
Toluene-d8	47	1	50.0	93 %	69-110	9A02015	EPA 8260B	01/02/09 19:54	REF		

Description: MW-23

Lab Sample ID: C900006-04

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:40

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:07	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Barium [7440-39-3] ^	97.2	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:41	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:41	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:41	JDH	
Chromium [7440-47-3] ^	7.4	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Cobalt [7440-48-4] ^	10.5		ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Lead [7439-92-1] ^	4.7	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Mercury [7439-97-6] ^	0.11	J	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:16	NLH	
Nickel [7440-02-0] ^	12.4	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:41	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:41	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:07	JDH	
Vanadium [7440-62-2] ^	4.6	J	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:41	JDH	
Zinc [7440-66-6] ^	11.6		ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:41	JDH	

Description: SW-4R

Lab Sample ID: C900006-05

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:55

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 20:22	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 20:22	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 20:22	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 20:22	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 20:22	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 20:22	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:22	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:22	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 20:22	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 20:22	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 20:22	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 20:22	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 20:22	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 20:22	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 20:22	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 20:22	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 20:22	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 20:22	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 20:22	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 20:22	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 20:22	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 20:22	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 20:22	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 20:22	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 20:22	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 20:22	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 20:22	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 20:22	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:22	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 20:22	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 20:22	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 20:22	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 20:22	REF	

Description: SW-4R

Lab Sample ID: C900006-05

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:55

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 20:22	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	9A02015	EPA 8260B	01/02/09 20:22	REF		
Dibromofluoromethane	53	1	50.0	106 %	68-117	9A02015	EPA 8260B	01/02/09 20:22	REF		
Toluene-d8	47	1	50.0	95 %	69-110	9A02015	EPA 8260B	01/02/09 20:22	REF		

Description: SW-4R

Lab Sample ID: C900006-05

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 12:55

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:10	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Barium [7440-39-3] ^	42.8	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:48	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:48	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:48	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:19	NLH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:48	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:48	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:10	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:48	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:48	JDH	

Description: MW-22

Lab Sample ID: C900006-06

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 13:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 20:50	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 20:50	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 20:50	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 20:50	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 20:50	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 20:50	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:50	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:50	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 20:50	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 20:50	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 20:50	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 20:50	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 20:50	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 20:50	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 20:50	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 20:50	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 20:50	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 20:50	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 20:50	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 20:50	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 20:50	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 20:50	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 20:50	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 20:50	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 20:50	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 20:50	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 20:50	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 20:50	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:50	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 20:50	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 20:50	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 20:50	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 20:50	REF	



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Description: MW-22

Lab Sample ID: C900006-06

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 13:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 20:50	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	90 %	51-122	9A02015	EPA 8260B	01/02/09 20:50	REF		
Dibromofluoromethane	52	1	50.0	105 %	68-117	9A02015	EPA 8260B	01/02/09 20:50	REF		
Toluene-d8	47	1	50.0	93 %	69-110	9A02015	EPA 8260B	01/02/09 20:50	REF		

Description: MW-22

Lab Sample ID: C900006-06

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 13:20

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:14	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Barium [7440-39-3] ^	36.5	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 12:55	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 12:55	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 12:55	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:21	NLH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 12:55	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 12:55	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:14	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 12:55	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 12:55	JDH	

Description: MW-21

Lab Sample ID: C900006-07

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 14:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 21:18	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 21:18	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,1-Dichloroethane [75-34-3] ^	2.5	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 21:18	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 21:18	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 21:18	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 21:18	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:18	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:18	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 21:18	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 21:18	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 21:18	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 21:18	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 21:18	REF	
Benzene [71-43-2] ^	1.0		ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 21:18	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 21:18	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 21:18	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 21:18	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 21:18	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 21:18	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 21:18	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 21:18	REF	
cis-1,2-Dichloroethene [156-59-2] ^	2.4	J	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 21:18	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 21:18	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 21:18	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 21:18	REF	
Methylene chloride [75-09-2] ^	1.1	J	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 21:18	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Tetrachloroethene [127-18-4] ^	0.52	J	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 21:18	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 21:18	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:18	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 21:18	REF	
Trichloroethene [79-01-6] ^	0.85	J	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 21:18	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 21:18	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 21:18	REF	



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Description: MW-21**Lab Sample ID:** C900006-07**Received:** 01/02/09 08:50**Matrix:** Ground Water**Sampled:** 12/30/08 14:00**Work Order:** C900006**Project:** Alexander Co. Closed C&D LF - App Is**Sampled By:** Jonathan Pfohl**Volatile Organic Compounds by GCMS***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 21:18	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	9A02015	EPA 8260B	01/02/09 21:18	REF		
Dibromofluoromethane	55	1	50.0	110 %	68-117	9A02015	EPA 8260B	01/02/09 21:18	REF		
Toluene-d8	47	1	50.0	93 %	69-110	9A02015	EPA 8260B	01/02/09 21:18	REF		

Description: MW-21

Lab Sample ID: C900006-07

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 14:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:17	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Barium [7440-39-3] ^	54.2	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 13:02	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 13:02	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 13:02	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Cobalt [7440-48-4] ^	7.7	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Mercury [7439-97-6] ^	1.14		ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:25	NLH	
Nickel [7440-02-0] ^	6.2	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 13:02	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:02	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:17	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 13:02	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 13:02	JDH	

Description: MW-17

Lab Sample ID: C900006-08

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 14:45

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 21:46	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 21:46	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,1-Dichloroethane [75-34-3] ^	1.7	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 21:46	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 21:46	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 21:46	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 21:46	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:46	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:46	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 21:46	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 21:46	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 21:46	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 21:46	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 21:46	REF	
Benzene [71-43-2] ^	0.81	J	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 21:46	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 21:46	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 21:46	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 21:46	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 21:46	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 21:46	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 21:46	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 21:46	REF	
cis-1,2-Dichloroethene [156-59-2] ^	2.0	J	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 21:46	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 21:46	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 21:46	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 21:46	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 21:46	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 21:46	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 21:46	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:46	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 21:46	REF	
Trichloroethene [79-01-6] ^	0.53	J	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 21:46	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 21:46	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 21:46	REF	



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Description: MW-17

Lab Sample ID: C900006-08

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 14:45

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 21:46	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	9A02015	EPA 8260B	01/02/09 21:46	REF		
Dibromofluoromethane	53	1	50.0	107 %	68-117	9A02015	EPA 8260B	01/02/09 21:46	REF		
Toluene-d8	48	1	50.0	95 %	69-110	9A02015	EPA 8260B	01/02/09 21:46	REF		

Description: MW-17

Lab Sample ID: C900006-08

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 14:45

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:21	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Barium [7440-39-3] ^	64.5	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 13:09	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 13:09	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 13:09	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Cobalt [7440-48-4] ^	22.4		ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Mercury [7439-97-6] ^	0.34		ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:28	NLH	
Nickel [7440-02-0] ^	5.3	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 13:09	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:09	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:21	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 13:09	JDH	
Zinc [7440-66-6] ^	4.2	J	ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 13:09	JDH	

Description: MW-20

Lab Sample ID: C900006-09

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 15:10

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 22:14	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 22:14	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,1-Dichloroethane [75-34-3] ^	0.59	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 22:14	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 22:14	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 22:14	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 22:14	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:14	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:14	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 22:14	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 22:14	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 22:14	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 22:14	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 22:14	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 22:14	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 22:14	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 22:14	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 22:14	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 22:14	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 22:14	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 22:14	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 22:14	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 22:14	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 22:14	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 22:14	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 22:14	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 22:14	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 22:14	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 22:14	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:14	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 22:14	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 22:14	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 22:14	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 22:14	REF	



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Description: MW-20**Lab Sample ID:** C900006-09**Received:** 01/02/09 08:50**Matrix:** Ground Water**Sampled:** 12/30/08 15:10**Work Order:** C900006**Project:** Alexander Co. Closed C&D LF - App Is**Sampled By:** Jonathan Pfohl**Volatile Organic Compounds by GCMS***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 22:14	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	89 %	51-122	9A02015	EPA 8260B	01/02/09 22:14	REF		
Dibromofluoromethane	54	1	50.0	109 %	68-117	9A02015	EPA 8260B	01/02/09 22:14	REF		
Toluene-d8	47	1	50.0	94 %	69-110	9A02015	EPA 8260B	01/02/09 22:14	REF		

Description: MW-20

Lab Sample ID: C900006-09

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 15:10

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:31	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Barium [7440-39-3] ^	190		ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 13:17	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 13:17	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 13:17	JDH	
Chromium [7440-47-3] ^	7.7	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Cobalt [7440-48-4] ^	6.9	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Copper [7440-50-8] ^	12.0		ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Lead [7439-92-1] ^	3.3	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:31	NLH	
Nickel [7440-02-0] ^	15.4	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 13:17	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:17	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:31	JDH	
Vanadium [7440-62-2] ^	7.7	J	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 13:17	JDH	
Zinc [7440-66-6] ^	10.1		ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 13:17	JDH	

Description: MW-1B (MS/MSD)

Lab Sample ID: C900006-10

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 15:35

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 15:11	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 15:11	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,1-Dichloroethane [75-34-3] ^	1.5	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 15:11	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 15:11	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 15:11	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 15:11	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 15:11	REF	
1,4-Dichlorobenzene [106-46-7] ^	1.8		ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 15:11	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 15:11	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 15:11	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 15:11	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 15:11	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 15:11	REF	
Benzene [71-43-2] ^	1.4		ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 15:11	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 15:11	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 15:11	REF	
Carbon disulfide [75-15-0] ^	0.66	J	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 15:11	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 15:11	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 15:11	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 15:11	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 15:11	REF	
cis-1,2-Dichloroethene [156-59-2] ^	4.1	J	ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 15:11	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 15:11	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 15:11	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 15:11	REF	
Methylene chloride [75-09-2] ^	1.2	J	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 15:11	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 15:11	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 15:11	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 15:11	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 15:11	REF	
Trichloroethene [79-01-6] ^	0.43	J	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 15:11	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 15:11	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 15:11	REF	

Description: MW-1B (MS/MSD)

Lab Sample ID: C900006-10

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 15:35

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	2.2	J	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 15:11	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	90 %	51-122	9A02015	EPA 8260B	01/02/09 15:11	REF		
Dibromofluoromethane	53	1	50.0	106 %	68-117	9A02015	EPA 8260B	01/02/09 15:11	REF		
Toluene-d8	47	1	50.0	93 %	69-110	9A02015	EPA 8260B	01/02/09 15:11	REF		

Description: MW-1B (MS/MSD)

Lab Sample ID: C900006-10

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 15:35

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 12:29	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Barium [7440-39-3] ^	32.9	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 11:26	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 11:26	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 11:26	JDH	
Chromium [7440-47-3] ^	2.7	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Cobalt [7440-48-4] ^	14.0		ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Copper [7440-50-8] ^	2.00	J	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Lead [7439-92-1] ^	5.3	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Mercury [7439-97-6] ^	0.32		ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 14:44	NLH	
Nickel [7440-02-0] ^	6.7	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 11:26	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 11:26	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 12:29	JDH	
Vanadium [7440-62-2] ^	3.4	J	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 11:26	JDH	
Zinc [7440-66-6] ^	48.9		ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 11:26	JDH	

Description: MW-1

Lab Sample ID: C900006-11

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 22:42	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/02/09 22:42	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,1-Dichloroethane [75-34-3] ^	1.5	J	ug/L	1	0.33	1.0	5	EPA 8260B	01/02/09 22:42	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/02/09 22:42	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/02/09 22:42	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/02/09 22:42	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:42	REF	
1,4-Dichlorobenzene [106-46-7] ^	3.2		ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:42	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/02/09 22:42	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/02/09 22:42	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/02/09 22:42	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/02/09 22:42	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/02/09 22:42	REF	
Benzene [71-43-2] ^	4.5		ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/02/09 22:42	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/02/09 22:42	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/02/09 22:42	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/02/09 22:42	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/02/09 22:42	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/02/09 22:42	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/02/09 22:42	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/02/09 22:42	REF	
cis-1,2-Dichloroethene [156-59-2] ^	8.8		ug/L	1	0.36	1.0	5	EPA 8260B	01/02/09 22:42	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/02/09 22:42	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/02/09 22:42	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/02/09 22:42	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/02/09 22:42	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/02/09 22:42	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/02/09 22:42	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:42	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/02/09 22:42	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/02/09 22:42	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/02/09 22:42	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/02/09 22:42	REF	

Description: MW-1

Lab Sample ID: C900006-11

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.41	J	ug/L	1	0.40	1.0	5	EPA 8260B	01/02/09 22:42	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	88 %	51-122	9A02015	EPA 8260B	01/02/09 22:42	REF		
Dibromofluoromethane	53	1	50.0	106 %	68-117	9A02015	EPA 8260B	01/02/09 22:42	REF		
Toluene-d8	46	1	50.0	92 %	69-110	9A02015	EPA 8260B	01/02/09 22:42	REF		

Description: MW-1

Lab Sample ID: C900006-11

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:34	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Barium [7440-39-3] ^	63.2	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 13:24	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 13:24	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 13:24	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Cobalt [7440-48-4] ^	31.2		ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Lead [7439-92-1] ^	6.1	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Mercury [7439-97-6] ^	0.17	J	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:33	NLH	
Nickel [7440-02-0] ^	17.1	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 13:24	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:24	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:34	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 13:24	JDH	
Zinc [7440-66-6] ^	356		ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 13:24	JDH	

Description: MW-18

Lab Sample ID: C900006-12

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:40

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/04/09 01:15	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/04/09 01:15	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/04/09 01:15	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/04/09 01:15	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/04/09 01:15	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/04/09 01:15	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/04/09 01:15	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/04/09 01:15	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/04/09 01:15	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/04/09 01:15	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/04/09 01:15	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/04/09 01:15	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/04/09 01:15	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/04/09 01:15	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/04/09 01:15	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/04/09 01:15	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/04/09 01:15	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/04/09 01:15	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/04/09 01:15	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/04/09 01:15	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/04/09 01:15	JKG	

Description: MW-18

Lab Sample ID: C900006-12

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:40

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/04/09 01:15	JKG	
Surrogates											
4-Bromofluorobenzene	46	1	50.0	91 %	51-122	9A03002	EPA 8260B	01/04/09 01:15	JKG		
Dibromofluoromethane	51	1	50.0	103 %	68-117	9A03002	EPA 8260B	01/04/09 01:15	JKG		
Toluene-d8	46	1	50.0	91 %	69-110	9A03002	EPA 8260B	01/04/09 01:15	JKG		

Description: MW-18

Lab Sample ID: C900006-12

Received: 01/02/09 08:50

Matrix: Ground Water

Sampled: 12/30/08 16:40

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	01/06/09 13:38	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Barium [7440-39-3] ^	39.8	J	ug/L	1	1.00	10.0	100	EPA 6010B	01/09/09 13:40	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	01/09/09 13:40	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	01/09/09 13:40	JDH	
Chromium [7440-47-3] ^	3.8	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Cobalt [7440-48-4] ^	6.6	J	ug/L	1	1.1	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Copper [7440-50-8] ^	16.0		ug/L	1	1.60	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Lead [7439-92-1] ^	4.8	J	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/05/09 15:36	NLH	
Nickel [7440-02-0] ^	8.9	J	ug/L	1	1.8	10.0	50	EPA 6010B	01/09/09 13:40	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	01/09/09 13:40	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/06/09 13:38	JDH	
Vanadium [7440-62-2] ^	9.2	J	ug/L	1	1.4	10.0	25	EPA 6010B	01/09/09 13:40	JDH	
Zinc [7440-66-6] ^	22.7		ug/L	1	3.8	10.0	10	EPA 6010B	01/09/09 13:40	JDH	

Description: EB

Lab Sample ID: C900006-13

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 16:50

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 05:17	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/03/09 05:17	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/03/09 05:17	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/03/09 05:17	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/03/09 05:17	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/03/09 05:17	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:17	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:17	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/03/09 05:17	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/03/09 05:17	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/03/09 05:17	REF	
Acetone [67-64-1] ^	14	J	ug/L	1	1.5	5.0	100	EPA 8260B	01/03/09 05:17	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/03/09 05:17	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/03/09 05:17	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/03/09 05:17	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/03/09 05:17	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/03/09 05:17	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/03/09 05:17	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/03/09 05:17	REF	
Chloroform [67-66-3] ^	0.43	J	ug/L	1	0.20	1.0	5	EPA 8260B	01/03/09 05:17	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/03/09 05:17	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/03/09 05:17	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/03/09 05:17	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/03/09 05:17	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/03/09 05:17	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/03/09 05:17	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 05:17	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/03/09 05:17	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:17	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/03/09 05:17	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 05:17	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/03/09 05:17	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/03/09 05:17	REF	

Description: EB

Lab Sample ID: C900006-13

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 16:50

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 05:17	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	9A02016	EPA 8260B	01/03/09 05:17	REF		
Dibromofluoromethane	52	1	50.0	104 %	68-117	9A02016	EPA 8260B	01/03/09 05:17	REF		
Toluene-d8	48	1	50.0	95 %	69-110	9A02016	EPA 8260B	01/03/09 05:17	REF		

Description: FB

Lab Sample ID: C900006-14

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 17:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 05:45	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/03/09 05:45	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/03/09 05:45	REF	
1,1-Dichloroethylene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/03/09 05:45	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/03/09 05:45	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/03/09 05:45	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:45	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:45	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/03/09 05:45	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/03/09 05:45	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/03/09 05:45	REF	
Acetone [67-64-1] ^	15	J	ug/L	1	1.5	5.0	100	EPA 8260B	01/03/09 05:45	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/03/09 05:45	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/03/09 05:45	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/03/09 05:45	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/03/09 05:45	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/03/09 05:45	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/03/09 05:45	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/03/09 05:45	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/03/09 05:45	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/03/09 05:45	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/03/09 05:45	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/03/09 05:45	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/03/09 05:45	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/03/09 05:45	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	01/03/09 05:45	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 05:45	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/03/09 05:45	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:45	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/03/09 05:45	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 05:45	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/03/09 05:45	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/03/09 05:45	REF	

Description: FB

Lab Sample ID: C900006-14

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 17:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 05:45	REF	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	9A02016	EPA 8260B	01/03/09 05:45	REF		
Dibromofluoromethane	53	1	50.0	107 %	68-117	9A02016	EPA 8260B	01/03/09 05:45	REF		
Toluene-d8	48	1	50.0	95 %	69-110	9A02016	EPA 8260B	01/03/09 05:45	REF		

Description: TB

Lab Sample ID: C900006-15

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 11:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: ENCO

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 06:13	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/03/09 06:13	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/03/09 06:13	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/03/09 06:13	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/03/09 06:13	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/03/09 06:13	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 06:13	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 06:13	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/03/09 06:13	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/03/09 06:13	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/03/09 06:13	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/03/09 06:13	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	01/03/09 06:13	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/03/09 06:13	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/03/09 06:13	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/03/09 06:13	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/03/09 06:13	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/03/09 06:13	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/03/09 06:13	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/03/09 06:13	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/03/09 06:13	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/03/09 06:13	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/03/09 06:13	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/03/09 06:13	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	01/03/09 06:13	REF	
Methylene chloride [75-09-2] ^	0.78	J	ug/L	1	0.53	2.0	1	EPA 8260B	01/03/09 06:13	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/03/09 06:13	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/03/09 06:13	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 06:13	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/03/09 06:13	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/03/09 06:13	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	01/03/09 06:13	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/03/09 06:13	REF	



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Description: TB

Lab Sample ID: C900006-15

Received: 01/02/09 08:50

Matrix: Water

Sampled: 12/30/08 11:00

Work Order: C900006

Project: Alexander Co. Closed C&D LF - App Is

Sampled By: ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/03/09 06:13	REF	
Surrogates											
4-Bromofluorobenzene	45	1	50.0	89 %	51-122	9A02016	EPA 8260B	01/03/09 06:13	REF		
Dibromofluoromethane	54	1	50.0	108 %	68-117	9A02016	EPA 8260B	01/03/09 06:13	REF		
Toluene-d8	47	1	50.0	94 %	69-110	9A02016	EPA 8260B	01/03/09 06:13	REF		

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L19002 - EPA 5030B_MS

Blank (8L19002-BLK1)

Prepared: 12/19/2008 08:04 Analyzed: 12/19/2008 16:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							

Surrogate: 4-Bromofluorobenzene

43

ug/L

50.0

87

51-122

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L19002 - EPA 5030B_MS

Blank (8L19002-BLK1) Continued

Prepared: 12/19/2008 08:04 Analyzed: 12/19/2008 16:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	49			ug/L	50.0		97	68-117			
Surrogate: Toluene-d8	47			ug/L	50.0		93	69-110			

LCS (8L19002-BS1)

Prepared: 12/19/2008 08:04 Analyzed: 12/19/2008 17:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		101	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	75-115			

Matrix Spike (8L19002-MS1)

Prepared: 12/19/2008 08:04 Analyzed: 12/19/2008 17:44

Source: C813794-25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	98	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115			

Matrix Spike Dup (8L19002-MSD1)

Prepared: 12/19/2008 08:04 Analyzed: 12/19/2008 18:13

Source: C813794-25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	92	75-133	6	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	94	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117	2	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118	0.4	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	89	75-115	4	18	

Batch 8L20002 - EPA 5030B_MS

Blank (8L20002-BLK1)

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 19:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L20002 - EPA 5030B_MS

Blank (8L20002-BLK1) Continued

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 19:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	44			ug/L	50.0		88	51-122			
<i>Surrogate: Dibromofluoromethane</i>	48			ug/L	50.0		96	68-117			
<i>Surrogate: Toluene-d8</i>	47			ug/L	50.0		94	69-110			

LCS (8L20002-BS1)

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 19:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	21		1.0	ug/L	20.0		103	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	19		1.0	ug/L	20.0		96	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L20002 - EPA 5030B_MS

LCS (8L20002-BS1) Continued

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 19:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (8L20002-MS1)

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 20:11

Source: C814378-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	98	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	100	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115			

Matrix Spike Dup (8L20002-MSD1)

Prepared: 12/20/2008 14:23 Analyzed: 12/20/2008 20:40

Source: C814378-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	94	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	98	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117	1	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	90	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115	0.5	18	

Batch 9A02015 - EPA 5030B_MS

Blank (9A02015-BLK1)

Prepared: 01/02/2009 12:19 Analyzed: 01/02/2009 12:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9A02015 - EPA 5030B_MS

Blank (9A02015-BLK1) Continued

Prepared: 01/02/2009 12:19 Analyzed: 01/02/2009 12:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	45			ug/L	50.0		89	51-122			
<i>Surrogate: Dibromofluoromethane</i>	53			ug/L	50.0		106	68-117			
<i>Surrogate: Toluene-d8</i>	46			ug/L	50.0		93	69-110			

LCS (9A02015-BS1)

Prepared: 01/02/2009 12:19 Analyzed: 01/02/2009 13:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		92	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	21		1.0	ug/L	20.0		107	75-115			

Matrix Spike (9A02015-MS1)

Prepared: 01/02/2009 12:19 Analyzed: 01/02/2009 13:46

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	23		1.0	ug/L	20.0	1.4	106	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	96	71-118			
Trichloroethene	25		1.0	ug/L	20.0	0.43	121	75-115			QM-07

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9A02015 - EPA 5030B_MS

Matrix Spike Dup (9A02015-MSD1)

Prepared: 01/02/2009 12:19 Analyzed: 01/02/2009 14:14

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133	5	20	
Benzene	22		1.0	ug/L	20.0	1.4	102	81-134	4	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	83-117	1	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	94	71-118	2	17	
Trichloroethene	23		1.0	ug/L	20.0	0.43	113	75-115	7	18	

Batch 9A02016 - EPA 5030B_MS

Blank (9A02016-BLK1)

Prepared: 01/02/2009 12:45 Analyzed: 01/03/2009 02:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethene	0.33	U	1.0	ug/L							
1,1-Dichloroethane	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control
Batch 9A02016 - EPA 5030B_MS
Blank (9A02016-BLK1) Continued

Prepared: 01/02/2009 12:45 Analyzed: 01/03/2009 02:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	44			ug/L	50.0		89	51-122			
<i>Surrogate: Dibromofluoromethane</i>	53			ug/L	50.0		105	68-117			
<i>Surrogate: Toluene-d8</i>	46			ug/L	50.0		93	69-110			

LCS (9A02016-BS1)

Prepared: 01/02/2009 12:45 Analyzed: 01/03/2009 03:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		84	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		89	83-117			
Toluene	17		1.0	ug/L	20.0		85	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			

Matrix Spike (9A02016-MS1)

Prepared: 01/02/2009 12:45 Analyzed: 01/03/2009 03:53

Source: C814940-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	86	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	94	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.27 U	88	83-117			
Toluene	17		1.0	ug/L	20.0	0.27 U	84	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115			

Matrix Spike Dup (9A02016-MSD1)

Prepared: 01/02/2009 12:45 Analyzed: 01/03/2009 04:21

Source: C814940-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	86	75-133	0.3	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	91	81-134	4	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.27 U	90	83-117	2	16	
Toluene	17		1.0	ug/L	20.0	0.27 U	84	71-118	0.4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	101	75-115	4	18	

Batch 9A03002 - EPA 5030B_MS

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9A03002 - EPA 5030B_MS

Blank (9A03002-BLK1)

Prepared: 01/03/2009 14:43 Analyzed: 01/03/2009 19:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							

Surrogate: 4-Bromofluorobenzene

45

ug/L

50.0

89

51-122

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9A03002 - EPA 5030B_MS

Blank (9A03002-BLK1) Continued

Prepared: 01/03/2009 14:43 Analyzed: 01/03/2009 19:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	49			ug/L	50.0		99	68-117			
Surrogate: Toluene-d8	46			ug/L	50.0		92	69-110			

LCS (9A03002-BS1)

Prepared: 01/03/2009 14:43 Analyzed: 01/03/2009 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		89	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	75-115			

Matrix Spike (9A03002-MS1)

Prepared: 01/03/2009 14:43 Analyzed: 01/03/2009 20:28

Source: C900067-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	91	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	94	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115			

Matrix Spike Dup (9A03002-MSD1)

Prepared: 01/03/2009 14:43 Analyzed: 01/03/2009 21:00

Source: C900067-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	92	75-133	0.2	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	92	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117	1	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118	0.06	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	92	75-115	1	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L19015 - EPA 245.1

Blank (8L19015-BLK1)

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8L19015-BS1)

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 16:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.78		0.20	ug/L	5.00		96	85-115			

Matrix Spike (8L19015-MS1)

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 17:04

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control
Batch 8L19015 - EPA 245.1
Matrix Spike (8L19015-MS1) Continued

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 17:04

Source: C813460-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.10		0.20	ug/L	5.00	0.11 U	82	85-115			QM-07

Matrix Spike Dup (8L19015-MSD1)

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 17:07

Source: C813460-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.04		0.20	ug/L	5.00	0.11 U	81	85-115	2	15	QM-07

Post Spike (8L19015-PS1)

Prepared: 12/19/2008 09:00 Analyzed: 12/19/2008 17:15

Source: C813460-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.86		0.20	ug/L	5.00	-0.10	79	75-125			

Batch 8L21003 - EPA 3005A
Blank (8L21003-BLK1)

Prepared: 12/21/2008 15:34 Analyzed: 01/02/2009 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	J	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8L21003-BS1)

Prepared: 12/21/2008 15:34 Analyzed: 01/02/2009 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	531		10.0	ug/L	500		106	82-117			
Barium	534		10.0	ug/L	500		107	72-125			
Beryllium	270	B	1.00	ug/L	250		108	75-121			
Cadmium	273		1.00	ug/L	250		109	72-120			
Chromium	525		10.0	ug/L	500		105	78-119			
Cobalt	517		10.0	ug/L	500		103	76-117			
Copper	263		10.0	ug/L	250		105	80-117			
Lead	527		10.0	ug/L	500		105	72-121			
Nickel	537		10.0	ug/L	500		107	78-116			
Selenium	546		10.0	ug/L	500		109	82-127			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L21003 - EPA 3005A

LCS (8L21003-BS1) Continued

Prepared: 12/21/2008 15:34 Analyzed: 01/02/2009 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	48.7		10.0	ug/L	50.0		97	80-128			
Vanadium	254		10.0	ug/L	250		102	78-117			
Zinc	529		10.0	ug/L	500		106	80-120			

Matrix Spike (8L21003-MS1)

Prepared: 12/21/2008 15:34 Analyzed: 01/02/2009 11:25

Source: C813459-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	541		10.0	ug/L	500	2.8 U	108	64-126			
Barium	648		10.0	ug/L	500	112	107	74-119			
Beryllium	276	B	1.00	ug/L	250	0.10 U	110	70-131			
Cadmium	267		1.00	ug/L	250	0.36 U	107	68-121			
Chromium	499		10.0	ug/L	500	1.0 U	100	73-120			
Cobalt	519		10.0	ug/L	500	6.5	102	76-120			
Copper	263		10.0	ug/L	250	1.60 U	105	75-123			
Lead	518		10.0	ug/L	500	1.9 U	104	68-126			
Nickel	561		10.0	ug/L	500	31.8	106	64-126			
Selenium	540		10.0	ug/L	500	2.7 U	108	65-129			
Silver	49.8		10.0	ug/L	50.0	1.9 U	100	69-121			
Vanadium	158		10.0	ug/L	250	1.4 U	63	71-130			
Zinc	518		10.0	ug/L	500	3.8 U	104	63-131			

Matrix Spike Dup (8L21003-MSD1)

Prepared: 12/21/2008 15:34 Analyzed: 01/02/2009 11:32

Source: C813459-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	532		10.0	ug/L	500	2.8 U	106	64-126	2	12	
Barium	638		10.0	ug/L	500	112	105	74-119	2	11	
Beryllium	271	B	1.00	ug/L	250	0.10 U	108	70-131	2	21	
Cadmium	263		1.00	ug/L	250	0.36 U	105	68-121	2	12	
Chromium	487		10.0	ug/L	500	1.0 U	97	73-120	2	10	
Cobalt	505		10.0	ug/L	500	6.5	100	76-120	3	17	
Copper	259		10.0	ug/L	250	1.60 U	104	75-123	2	16	
Lead	506		10.0	ug/L	500	1.9 U	101	68-126	2	19	
Nickel	550		10.0	ug/L	500	31.8	104	64-126	2	12	
Selenium	529		10.0	ug/L	500	2.7 U	106	65-129	2	10	
Silver	48.2		10.0	ug/L	50.0	1.9 U	96	69-121	3	12	
Vanadium	156		10.0	ug/L	250	1.4 U	62	71-130	2	16	QM-07
Zinc	504		10.0	ug/L	500	3.8 U	101	63-131	3	24	

Batch 8L21004 - EPA 3005A

Blank (8L21004-BLK1)

Prepared: 12/21/2008 15:35 Analyzed: 01/06/2009 10:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L21004 - EPA 3005A

LCS (8L21004-BS1)

Prepared: 12/21/2008 15:35 Analyzed: 01/06/2009 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.7		2.00	ug/L	25.0		91	85-115			
Thallium	22.8		1.00	ug/L	25.0		91	85-115			

Matrix Spike (8L21004-MS1)

Prepared: 12/21/2008 15:35 Analyzed: 01/06/2009 10:12

Source: C813459-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.3		2.00	ug/L	25.0	0.68 U	93	85-115			
Thallium	22.6		1.00	ug/L	25.0	0.036 U	90	85-115			

Matrix Spike Dup (8L21004-MSD1)

Prepared: 12/21/2008 15:35 Analyzed: 01/06/2009 10:16

Source: C813459-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.7		2.00	ug/L	25.0	0.68 U	91	85-115	3	20	
Thallium	21.9		1.00	ug/L	25.0	0.036 U	88	85-115	3	20	

Post Spike (8L21004-PS1)

Prepared: 12/21/2008 15:35 Analyzed: 01/06/2009 10:19

Source: C813459-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.000004	94	75-125			
Thallium	0.024		0.001	mg/L	0.0250	-0.0002	95	75-125			

Batch 9A02010 - EPA 3005A

Blank (9A02010-BLK1)

Prepared: 01/02/2009 11:15 Analyzed: 01/09/2009 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (9A02010-BS1)

Prepared: 01/02/2009 11:15 Analyzed: 01/09/2009 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	534		10.0	ug/L	500		107	82-117			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control
Batch 9A02010 - EPA 3005A
LCS (9A02010-BS1) Continued

Prepared: 01/02/2009 11:15 Analyzed: 01/09/2009 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	532		10.0	ug/L	500		106	72-125			
Beryllium	271		1.00	ug/L	250		108	75-121			
Cadmium	275		1.00	ug/L	250		110	72-120			
Chromium	523		10.0	ug/L	500		105	78-119			
Cobalt	519		10.0	ug/L	500		104	76-117			
Copper	265		10.0	ug/L	250		106	80-117			
Lead	525		10.0	ug/L	500		105	72-121			
Nickel	537		10.0	ug/L	500		107	78-116			
Selenium	542		10.0	ug/L	500		108	82-127			
Silver	49.7		10.0	ug/L	50.0		99	80-128			
Vanadium	253		10.0	ug/L	250		101	78-117			
Zinc	530		10.0	ug/L	500		106	80-120			

Matrix Spike (9A02010-MS1)

Prepared: 01/02/2009 11:15 Analyzed: 01/09/2009 11:33

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	548		10.0	ug/L	500	2.8 U	110	64-126			
Barium	594		10.0	ug/L	500	32.9	112	74-119			
Beryllium	281		1.00	ug/L	250	0.10 U	113	70-131			
Cadmium	282		1.00	ug/L	250	0.36 U	113	68-121			
Chromium	545		10.0	ug/L	500	2.7	108	73-120			
Cobalt	549		10.0	ug/L	500	14.0	107	76-120			
Copper	272		10.0	ug/L	250	2.00	108	75-123			
Lead	548		10.0	ug/L	500	5.3	109	68-126			
Nickel	566		10.0	ug/L	500	6.7	112	64-126			
Selenium	550		10.0	ug/L	500	2.7 U	110	65-129			
Silver	50.5		10.0	ug/L	50.0	1.9 U	101	69-121			
Vanadium	266		10.0	ug/L	250	3.4	105	71-130			
Zinc	603		10.0	ug/L	500	48.9	111	63-131			

Matrix Spike Dup (9A02010-MSD1)

Prepared: 01/02/2009 11:15 Analyzed: 01/09/2009 11:40

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	529		10.0	ug/L	500	2.8 U	106	64-126	3	12	
Barium	578		10.0	ug/L	500	32.9	109	74-119	3	11	
Beryllium	273		1.00	ug/L	250	0.10 U	109	70-131	3	21	
Cadmium	274		1.00	ug/L	250	0.36 U	110	68-121	3	12	
Chromium	529		10.0	ug/L	500	2.7	105	73-120	3	10	
Cobalt	536		10.0	ug/L	500	14.0	104	76-120	2	17	
Copper	264		10.0	ug/L	250	2.00	105	75-123	3	16	
Lead	532		10.0	ug/L	500	5.3	105	68-126	3	19	
Nickel	548		10.0	ug/L	500	6.7	108	64-126	3	12	
Selenium	546		10.0	ug/L	500	2.7 U	109	65-129	0.9	10	
Silver	48.6		10.0	ug/L	50.0	1.9 U	97	69-121	4	12	
Vanadium	258		10.0	ug/L	250	3.4	102	71-130	3	16	
Zinc	587		10.0	ug/L	500	48.9	108	63-131	3	24	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9A02010 - EPA 3005A

Batch 9A02012 - EPA 3005A

Blank (9A02012-BLK1)

Prepared: 01/02/2009 11:21 Analyzed: 01/06/2009 12:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9A02012-BS1)

Prepared: 01/02/2009 11:21 Analyzed: 01/06/2009 12:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.2		2.00	ug/L	25.0		93	85-115			
Thallium	23.1		1.00	ug/L	25.0		92	85-115			

Matrix Spike (9A02012-MS1)

Prepared: 01/02/2009 11:21 Analyzed: 01/06/2009 12:32

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	20.1		2.00	ug/L	25.0	0.68 U	80	85-115			QM-07
Thallium	22.5		1.00	ug/L	25.0	0.036 U	90	85-115			

Matrix Spike Dup (9A02012-MSD1)

Prepared: 01/02/2009 11:21 Analyzed: 01/06/2009 12:36

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	20.2		2.00	ug/L	25.0	0.68 U	81	85-115	0.7	20	QM-07
Thallium	22.6		1.00	ug/L	25.0	0.036 U	90	85-115	0.5	20	

Post Spike (9A02012-PS1)

Prepared: 01/02/2009 11:21 Analyzed: 01/06/2009 12:39

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	0.0001	101	75-125			
Thallium	0.025		0.001	mg/L	0.0250	-0.0002	102	75-125			

Batch 9A05008 - EPA 7470A

Blank (9A05008-BLK1)

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (9A05008-BS1)

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.88		0.20	ug/L	5.00		98	85-115			

Matrix Spike (9A05008-MS1)

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:48

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9A05008 - EPA 7470A
Matrix Spike (9A05008-MS1) Continued

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:48

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.38		0.20	ug/L	5.00	0.32	81	85-115			QM-07

Matrix Spike Dup (9A05008-MSD1)

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:51

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.37		0.20	ug/L	5.00	0.32	81	85-115	0.3	15	QM-07

Post Spike (9A05008-PS1)

Prepared: 01/05/2009 09:03 Analyzed: 01/05/2009 14:55

Source: C900006-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.57		0.20	ug/L	5.00	0.32	65	75-125			QM-07

FLAGS/NOTES AND DEFINITIONS

- B The analyte was detected in the associated method blank.
- D The sample was analyzed at dilution.
- J The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.



ENVIRONMENTAL CONSERVATION LABORATORIES, INC.

Sample preservation verification

Cary Jacksonville Orlando

Work order: C813459 Page: 1 of 1 Initials: BJG Date: 1/19/08

A check mark () in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.

An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Reagent name ID Reagent name ID Reagent name ID

1		3		5	
2		4		6	

Sample No.

pH →

Metals

TPH

Ammonia

COD

Cyanide

TOC

Hardness

TKN/TON

Oil & grease

Phenolics

NOx

Extractables

Sulfide

FL-PRO

COMMENTS

B36

636

LOGIN SAMPLE PRESERVATION CHECK (9/22/05)

Report #/
C813459 submitted
previously 2/17/08

Page 2 of 3

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

1075 Central Park Court, Suite 211
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102-A Woodlands Industrial Ct.
Cary, NC 27511
(919) 295-3607 Fax (919) 295-6216

Client Name Municipal Engineering Services (MUS001)	Project Number G08003.0	Requested Analyses										Requested Turnaround Times			
Address P.O. Box 97	Project Name/Address Alexander Co. Closed C&D LF - App Is											Note: Rush requests subject to acceptance by the Analytical Laboratory			
City/Zip Garner, NC 27529	PO # Billing Info											<input checked="" type="checkbox"/> Standard			
Tel (919) 772-5393	Fax (919) 772-1176	Reporting Contact Jonathan Pfehl											<input type="checkbox"/> Expedited		
Samples Name, Analysis Item <u>Jonathan Pfehl</u>		Billing Contact Accounts Payable											Due <u>/ /</u>		
Comments <u>Sample # & Temp</u>		Family # (if required)											Lab Workorder -C813459		
Preservation [See Codes] (Checklist as necessary)															
Item #	Sample ID (Field Identification)	Collection Date:	Collector	Time	General Grab	Matrix	Total # of Containers	Sample Comments							
MW-16	12/30/08	11:00	Grab	GW	4	X	X	C966006							
MW-SW-5	11:30		GW	4	X	X									
MW-13	12:00		GW	4	X	X									
MW-23	12:40		GW	4	X	X									
MW-SW-4R	12:55		GW	4	X	X									
MW-32	1:20		GW	4	X	X									
MW-31	2:00		GW	4	X	X									
MW-17	2:45		GW	4	X	X									
MW-30	3:10		GW	4	X	X									
MW-1B (MS/MSD)	3:35		GW	4	X	X									
MW-1	4:00		GW	4	X	X									
MW-18	4:40		GW	4	X	X									
<-- Total # of Containers															
Sample No/Prepared By C - SC	Date/Time 2/7/08	Received By <u>John Pfehl</u>	Date/Time 11:00	Received By <u>John Pfehl</u>	Date/Time 02-07-08 11:00 AM										Date/Time 02-07-08 11:00 AM
Comments SD	Prepared By C - SC	Prepared By C - SC	Date/Time 02-07-08 11:00 AM	Received By C - SC	Date/Time 02-07-08 11:00 AM										Date/Time 02-07-08 11:00 AM
Container # & Temps on Receipt C - SO 2 C - SO 3													Condition Upon Receipt X Acceptable	Condition Upon Receipt Unacceptable	

Preservation: Hg HgC Ni Hg Cd Cu As Pb Zn Ag As Ba Be Cd Cr Cd CrHg Ni PbSb
 Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless otherwise agreed.



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Sample preservation verification

Cary Jacksonville Orlando

Work order: C96d004 Page: 1 of 1 Initials: BJG Date: 11/01/09

A check mark (\checkmark) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.

An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

COMMENTS

Reagent name	ID	Reagent name	ID	Reagent name	ID
HNO ₃	CBG0111	3		5	
2		4		6	

LOGIN SAMPLE PRESERVATION CHECK (9/22/08)